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## EXPERIMENTAL MEASLES IN THE MONKEY: A PRELIMINARY NOTE.

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[From the Hygienic Laboratory, Washington, D. C.]

So far as we are aware the only attempts at inoculating monkeys with measles are those of Grunbaum. This worker, in a paper in the *British Medical Journal* (Apr. 9, 1904), reported various attempts at infecting two chimpanzees, including the injection of blood taken direct from the median basilic vein of measles cases. He considered that they were not only without effect, but that they "may even have conferred immunity rather than conveyed infection."

In view of the great importance of the subject, and of the apparent insusceptibility of other animals, it appeared to us highly desirable to put the question of the receptivity of monkeys to the infection of measles to further test.

We began work a year ago and now desire to report some results which we believe demonstrate that the rhesus monkey is capable of being infected by the blood drawn from the general circulation of a case of measles and that a monkey so infected may show a definite febrile reaction resembling the course of the temperature in some types of measles in the human subject, with or without a generalized exanthem.

Our first experiment was performed June 8, 1910, with some blood obtained from a case of measles at the Willard Parker Hospital, New York. Two rhesus monkeys were inoculated; in each a slight rise in temperature was noted on the eleventh day, the significance of which, however, we did not appreciate at that time.

Because of the lack of material, further work along this line had to be deferred until a more favorable season. The prevalence of an epidemic of the disease this spring in the District of Columbia brought with it the opportunity for which we had waited.

Our second attempt was made on April 25, 1911, with a result similar to our first.

On April 28, 1911, we made a third attempt, inoculating three rhesus monkeys (Nos. 7, 40, and 12). Again, so far as any temperature reaction is concerned, we obtained results essentially like those in both our previous experiments.

In the case of rhesus No. 12, however, besides a slight rise in the temperature on the tenth day after inoculation we noticed the appearance of a sparse papular eruption on the face, brows, and chin, with a diffuse erythema of the brows and lids. Four days later the eruption perceptibly faded; at the same time a fine, branny, scaling was noted at the site of the fading lesions.

Encouraged by this result, we proceeded to our fourth attempt. On May 16, 1911, with some blood from a fourth case, we inoculated monkeys Nos. 6 and 8. At the same time we reinoculated monkey No. 12, all evidence of any reaction from his previous inoculation having disappeared, with a view to testing his immunity and thus obtaining light on the nature of the reaction.

Ten days after inoculation monkey No. 6 showed a moderate rise in temperature. At the same time he was noted as having a hacking cough. A sparse eruption of irregular coppery tinted patches made its appearance at the same time on chest and abdomen. The patches showed a branny scaling. Unfortunately, during the operation of bleeding this animal was accidentally killed, so that further observations on the animal could not be made.

Monkey No. 8 developed a well-marked febrile reaction eight days after inoculation. The temperature remained elevated for four days, then dropped abruptly to its normal range. Ten days after inoculation this animal developed a well-marked maculo-papular eruption which in two days became generalized, extending over the chest, abdomen, back, and limbs. On the fifth day after its appearance the eruption began to fade and in two days more only slight stains at the site of the lesions were discernible. Desquamation was not noted except on the scalp and temple.

In contrast to the beginning reaction noted in monkey No. 6 and to the marked and striking reaction in monkey No. 8 we have to record the absence of any reaction in monkey No. 12, whose temperature since the day of his reinoculation—a period of 20 days—has oscillated within the normal range for this animal.

In order to obtain further light as to the nature of the reaction observed particularly in our monkeys Nos. 6 and 8 we aspirated blood from the heart of both these animals and used it for the inoculation of four fresh rhesus monkeys, two with blood from No. 6 and two with blood from No. 8. After a definite incubation period one animal of each pair developed a well-defined febrile reaction with a slight exanthem; the other one of each pair, after a similar incubation period, showed slight rises of temperature but no eruption.

It should here be noted that the blood from each human case was invariably tested for sterility by planting in a glucose-broth fermentation tube, as was also the monkey blood used for passage. In no instance did we obtain any growth.

From a consideration of the foregoing we believe we are justified in concluding that we have demonstrated the susceptibility of the rhesus monkey to inoculation with the blood of human measles drawn from the general circulation early in the eruptive stage.

Full details of our work will be given in a paper now in preparation.

It is a pleasure to acknowledge our indebtedness to Dr. Robert J. Wilson, superintendent of the Willard Parker Hospital, New York City; to Dr. William A. White, superintendent of the Government Hospital for the Insane; and to Dr. J. D. Morgan, of Washington, D. C., for access to cases of measles. We desire also to extend our thanks to Dr. George H. Schwinn, assistant superintendent, and Drs. N. J. Dynan, Rose Alexander, H. Robinson, and Josephine M. Stransky, of the Government Hospital for the Insane; to Drs. J. W. Lindsay and Leach, and to the assistant superintendent, Miss Kramer, of the Garfield Hospital, for their courtesy and helpfulness in obtaining specimens of blood.

# UNITED STATES.

## MUNICIPAL ORDINANCES, RULES, AND REGULATIONS PERTAINING TO PUBLIC HYGIENE.

[Adopted since Jan. 1, 1910.]

### WATERBURY, CONN.

#### PROTECTION OF FOODSTUFFS—MILK, BUTTER, AND CHEESE.

*Amendment to by-laws.*—Voted: That section 11 of the by-laws concerning milk and foodstuffs be amended by inserting the word "unclean," in the sixth line thereof, after the word "unwholesome," so that said section as amended will read as follows:

"Sec. 11. No person shall have, at any place where milk, butter, or cheese is kept for sale, nor shall at any place sell, deliver, or offer or have for sale, or keep for use, nor shall any persons bring or send to the city of Waterbury, any milk which contains over 300,000 bacteria per cubic centimeter, upon two or more examinations, or any unwholesome, unclean, or adulterated milk, or milk known as 'swill milk,' or milk from cows or other animals that have been fed in whole or in part on swill milk from sick or diseased cows or other animals, or any butter or cheese made from such milk or any unwholesome butter or cheese." [By-law, commissioners of public health, adopted Jan. 3, 1911.]

*Amendment to by-laws.*—That section 12 be amended by striking out the words "3 per cent of fats" and inserting in lieu thereof the words "3.25 per cent of fats," so that said section, as amended, shall read as follows:

"Sec. 12. No milk which is watered, adulterated, reduced, or changed, in any respect, by the addition of water, or other substance, or by the removal of a portion of the cream, except as hereinafter provided, shall be brought into the city, or held, kept, sold, or offered for sale, at any place in said city, nor shall anyone keep, have, sell, or offer for sale in said city any such milk.

"The term 'adulterated milk' when so used in this code means:

- "1. Milk containing more than 88 per cent of water or fluids.
- "2. Milk containing less than 12 per cent of milk solids.
- "3. Milk containing less than 3.25 per cent of fats, or milk from which a part of the cream has been removed, unless sold as 'skimmed milk' as hereinafter provided.
- "4. Milk drawn from animals within 15 days before or 5 days after parturition.
- "5. Milk drawn from animals fed on distillery waste, or on any substance in the state of fermentation or putrefaction, or on any unwholesome food.
- "6. Milk drawn from cows kept in a crowded or unhealthy condition.
- "7. Milk which has been diluted with water or any other fluid, or to which has been added or onto which has been introduced any foreign substance whatever.
- "8. Milk the temperature of which is higher than 55° F." [By-law, commissioners of public health, adopted May 2, 1910.]

*Amendment to by-laws.*—SEC. 20. It shall be unlawful to fill bottles at any place within the limits of the city of Waterbury, other than a dairy or milk depot, or until such bottles shall have been thoroughly cleansed; and it shall be unlawful for any person to have in his possession, with intent to sell, offer or expose for sale, or sell, deliver for sale, or consumption, within said city, any milk in bottles, which shall have been placed in such bottles, at any place in the city of Waterbury, other than a dairy or milk depot, as aforesaid.

Any violation of the provisions of this section shall be deemed a misdemeanor, and punishable by a fine not to exceed \$100. [By-law, commissioners of public health, adopted Jan. 3, 1911.]

## SPRINGFIELD, MASS.

## MILK—PRODUCTION, CARE, AND SALE.

**RULE 1.** No person shall engage in the sale or distribution of milk in the city of Springfield except in accordance with the public statutes contained in the Revised Laws of Massachusetts, chapter 56, and in the acts in amendment thereof, and the rules adopted by the board of health of said city.

**RULE 2.** All persons desiring to engage in the sale, delivery, or distribution of milk in the city of Springfield shall first make application for permission so to do upon blanks provided for that purpose, and no license will be issued until all regulations governing the production and care of milk are complied with by the dairies supplying milk to the applicant. No license will be granted for the sale or distribution of milk in the city of Springfield produced or obtained from any dairy which has not been inspected by the board of health, or from any dairy refusing permission for such sanitary inspection, or producing milk under conditions which are in violation of these regulations.

**RULE 3.** All persons engaged in the sale, delivery, or distribution of milk in the city of Springfield shall furnish the board of health upon proper blanks provided a list of the names and locations of the dairy farms from which the milk so distributed is obtained, and shall, before making any changes in their supply, notify the board of health of such intended changes. Any person neglecting to comply with this regulation, or who dispenses milk from any dairy whose milk has been excluded from the city of Springfield by the board, shall have his license revoked.

**RULE 4.** All wagons or other vehicles and utensils used in the conveyance of milk for distribution or sale in the city of Springfield shall be kept in a cleanly condition and free from offensive odors. Receptacles containing milk shall at all times during transportation be properly covered. Each wagon or vehicle used for sale, delivery, or distribution of milk shall have the name of the owner, residence, and license number painted thereon.

**RULE 5.** No license will be issued for the sale of milk in any store, shop, market, bakery, or other establishment outside of a properly equipped milk plant, except in properly labeled and stoppered bottles. All milk so kept for sale shall be maintained at a temperature not above 50° F., in a suitable refrigerator or cooler, properly drained and cared for and as approved by the board of health. The attendant making a sale of milk may transfer it to a container furnished by the customer at the time of purchase, but no bottle of milk shall be left unstoppered. A special permit must be obtained for the sale of milk from bulk containers to be drank on the premises.

**RULE 6.** Bottles shall only be filled at a dairy or milk plant, or in such other manner as may be acceptable to the board of health. In no case shall milk bottles be filled from the delivery wagon or from bulk containers left in places where milk is sold. All milk sold in bottles shall have a properly fitting stopper which shall have stamped thereon the name and license number of the dealer supplying the milk. Milk tickets shall not be used a second time. No can or other vessel used to contain milk shall be transported in any vehicle used for the conveyance of garbage or other material, or in other manner liable to cause contamination of milk.

**RULE 7.** No milk bottles shall be removed from any place where scarlet fever, diphtheria, or typhoid fever exists until such bottles have been thoroughly washed and sterilized by boiling them in water kept at the boiling point for 15 minutes; said sterilization to be done by the party using the milk. Any dealer receiving such bottles not so treated, or at any time refilling bottles which have not been properly washed and sterilized, will have his license suspended or revoked.

**RULE 8.** No milk shall be brought into, held, delivered, or offered for sale in the city of Springfield from cows that are either diseased, not properly cared for, or kept in any stable which is not at all times maintained in a clean, wholesome, and sanitary condition, or from any dairy refusing permission to allow an inspection made by the board of health as to the equipment and methods used in producing milk. A permit will be issued to every dairy desiring to send milk into the city of Springfield after an approved sanitary inspection has been made, and a permanent dairy number will be assigned to each dairy farm, to be used by dealers and this department for purposes of identification.

**RULE 9.** No milk shall be brought into, held, delivered, or offered for sale in this city from cows within 15 days before or 5 days after parturition, nor from cows having any inflammatory disease of the udder.

**RULE 10.** No person engaged in the business of producing milk to be sold or distributed in the city of Springfield shall store, cool, mix, or strain said milk in any room which is occupied by horses, cows, or other animals, or for the storage of manure,

or in any room used in whole or in part for domestic or sleeping purposes, unless such room is separated from other parts of the building to the satisfaction of the board of health. All rooms in which milk is stored, cooled, mixed, or strained shall be kept clean at all times to the satisfaction of the board of health, and all utensils actually employed in the storage, sale, or distribution of milk shall be washed with boiling water or sterilized with live steam before they are again used.

RULE 11. No urinal, water-closet, or privy shall be located in the rooms called for in the preceding section, or so situated as to pollute the atmosphere of said rooms. No swine shall be kept within 50 feet of a stable or room in which milk is produced, handled, or stored. Manure shall not be stored in any room where cows are kept, or in other manner liable to contaminate the milk.

RULE 12. All milk produced for distribution or sale in the city of Springfield shall be strained and cooled to 50° F. as soon as it is drawn, but said milk shall not be cooled or stored in any well, drinking trough used for watering animals, or in any receptacle located in the barnyard, or other manner not approved by the board of health. No milk shall be held, distributed, or sold in the city of Springfield at a temperature above 50° F.

RULE 13. Every person engaged in the production, storage, transportation, delivery, or distribution of milk to be sold in the city of Springfield shall notify the board of health immediately on the occurrence of any case or cases of diphtheria, scarlet fever, or typhoid fever, either in himself or in his family, or amongst his employees or their immediate associates, or within the building or premises where milk is stored, handled, or distributed, and at the same time shall suspend the sale and distribution of milk until authorized to resume the same by the said board of health. [Regulation board of health as amended Mar. 2, 1911.]

#### TAUNTON, MASS.

##### PRIVY VAULTS AND CESSPOOLS.

REGULATION 1. SECTION 1. No person shall collect, remove, or carry in or through any of the streets, lanes, avenues, places, or alleys within the city of Taunton the contents of any cesspool, privy vault, the drainage of any stable, dwelling house, slaughterhouse, or other building in said city unless expressly licensed therefor by the board of health upon such conditions and by such methods as the board may deem that the public health requires.

SEC. 2. No person shall clean, keep, or allow to remain within 300 feet of the dwelling house of another any cart, tank, or barrel used in removing the contents of cesspools or privy vaults.

All persons licensed by the board to remove the contents of cesspools and privy vaults shall keep all carts, equipments, and implements used in their work clean and free from all offensive odors when not in immediate use.

SEC. 3. No cesspool or privy vault shall be cleaned between 6 p. m. and sunrise.

No person, other than those especially licensed to do such work, shall clean any cesspool or privy vault without first obtaining a written permit from the board of health.

SEC. 4. No person or persons shall construct a cesspool or privy vault on any lot or premises where there is a sewer in any street or alley opposite thereto.

No person or persons shall construct a cesspool or privy vault on any lot or premises unless expressly licensed so to do by the board of health.

SEC. 5. Cesspools shall be of sufficient size to contain at least 80 cubic feet and shall be at least 18 inches below the surface of the ground and when not water tight shall be at least 20 feet distant from any well, spring, or other source of water supply used for drinking or culinary purposes and from any dwelling house.

SEC. 6. All privy vaults shall be built of brick or stone laid in cement and lined with cement, or of concrete, and shall be of sufficient size to contain at least 80 cubic feet. The walls of every vault shall be built up at least 6 inches above the surface of the ground. The inside of every privy vault shall be at least 3 feet from the line of every adjoining lot, and from every street, lane, passageway, or public place.

SEC. 7. Wherever the condition or construction of any cesspool or privy vault is different from the requirements of sections 5 and 6 the owner, occupant, or lessee of the estate where such cesspool or vault is located shall repair, alter, or remove such cesspool or vault when so ordered by the board within such time as may be named in the order.

SEC. 8. Whenever the use of any cesspool or privy vault is discontinued, such cesspool or vault shall be, at once, cleaned to the bottom and filled up with earth or other suitable material. [Regulation board of health adopted March 7, 1910.]

### CASE OF LEPROSY IN NORTH DAKOTA.

The following information dated May 26 was received from Dr. J. Grassick, secretary of the State board of health of North Dakota:

A case of leprosy has recently been found in Nelson County, in the person of a Norwegian who has resided in the United States for a period of 23 years. The patient is a farmer. He arrived at Larimore, N. Dak., in 1888, via Quebec. The source of the infection is not known. The last-known exposure occurred 23 years ago. The father of the patient is said to have been a leper. The type of the disease is tubercular and the duration of the disease has been about two years.

The Nelson County board of health has ordered the complete isolation of the patient.

### PLAGUE-PREVENTION WORK.

#### INFECTED GROUND SQUIRREL.

During the week ended May 20, 1911, the finding of one plague-infected squirrel was reported. The infected squirrel was found May 5, 1911, in San Joaquin County, Cal., at Eichoff ranch, 5 miles north of Ripon.

#### DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities of California, on San Francisco Bay, 810 acres of land in Alameda County were covered with poison during the week ended May 20, 1911.

#### Record of Plague Infection.

Places.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number of rodents found infected since May, 1907.
<b>California:</b>				
<b>Cities—</b>				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	None.....	398 rats.
Oakland.....	Oct. 26, 1909	Dec. 1, 1908	.....do.....	126 rats.
Berkeley.....	Aug. 28, 1907	None.....	.....do.....	None.
Los Angeles.....	Aug. 11, 1908	.....do.....	Aug. 21, 1908	1 squirrel.
<b>Counties—</b>				
Alameda (exclusive of Oakland and Berkeley).	Sept. 26, 1909	{ Wood rat..... Oct. 17, 1909	{ Apr. 18, 1911	{ 102 squirrels. 1 wood rat.
Contra Costa.....	July 21, 1908	None.....	Apr. 3, 1911	248 squirrels.
Merced.....	None.....	.....do.....	Mar. 20, 1911	3 squirrels.
Monterey.....	.....do.....	.....do.....	June 6, 1910	4 squirrels.
San Benito.....	June 5, 1910	.....do.....	July 11, 1910	20 squirrels.
San Joaquin.....	None.....	.....do.....	May 5, 1911	13 squirrels.
San Luis Obispo.....	.....do.....	.....do.....	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 23, 1910	.....do.....	Oct. 5, 1910	23 squirrels.
Santa Cruz.....	None.....	.....do.....	May 17, 1910	3 squirrels.
Stanislaus.....	.....do.....	.....do.....	Apr. 10, 1911	11 squirrels.

## Rats Collected and Examined for Plague Infection.

Places.	Week ended—	Found dead.	Total collected.	Examined.	Found infected.
California:					
Cities—					
Berkeley.....	May 20	.....	1 128	86	.....
Oakland.....	do	29	2 627	516	.....
San Francisco.....	do	30	1, 658	1, 171	.....
County—					
San Benito.....	do	.....	2	2	.....
Washington:					
City—					
Seattle.....	do	.....	1, 077	925	.....
Total.....		59	3, 492	2, 700	.....

<sup>1</sup> Identified, *Mus norvegicus* 96, *Mus musculus* 32.

<sup>2</sup> Identified, *Mus norvegicus* 586, *Mus musculus* 61.

<sup>3</sup> Identified, *Mus norvegicus* 1,040, *Mus rattus* 173, *Mus musculus* 311, *Mus alexandrinus* 134.

<sup>4</sup> Identified, *Mus norvegicus* 1, *Mus musculus* 1.

## Squirrels Collected and Examined for Plague Infection.

Places.	Week ended—	Shot or trapped.	Found dead.	Examined.	Found infected.
California:					
Counties—					
Alameda.....	May 20	212	.....	212	.....
Colusa.....	do	101	.....	100	.....
Contra Costa.....	do	.....	1	21	.....
El Dorado.....	do	32	.....	32	.....
Fresno.....	do	91	.....	91	.....
Glenn.....	do	5	.....	5	.....
Kern.....	do	15	.....	15	.....
Lake.....	do	105	1	106	.....
Los Angeles.....	do	327	.....	320	.....
Madera.....	do	158	.....	155	.....
Mariposa.....	do	97	.....	97	.....
Mendocino.....	do	66	4	70	.....
Merced.....	do	420	2	422	.....
Monterey.....	do	1, 024	1	1, 015	.....
Riverside.....	do	200	.....	200	.....
San Benito.....	do	130	30	160	.....
San Joaquin.....	do	309	.....	309	1
San Luis Obispo.....	do	345	.....	345	.....
San Mateo.....	do	77	.....	77	.....
Santa Clara.....	do	137	.....	137	.....
Siskiyou.....	do	6	.....	6	.....
Sonoma.....	do	11	.....	11	.....
Stanislaus.....	do	235	.....	235	.....
Tehama.....	do	15	.....	15	.....
Yolo.....	do	64	.....	64	.....
Oregon:					
County—					
Jackson.....	.....	1	.....	1	.....
Total.....		4, 203	39	4, 221	1

## Other Animals Collected and Examined.

Places.	Week ended—	Animals collected.	Examined.	Found infected.
California:				
Counties—				
Fresno.....	May 20	1 rabbit, 1 weasel.....	2	.....
Lake.....	do	4 rabbits.....	4	.....
Madera.....	do	3 rabbits, 1 weasel.....	4	.....
Mariposa.....	do	2 rabbits.....	2	.....
Merced.....	do	10 rabbits.....	10	.....
Monterey.....	do	3 rabbits, 14 chipmunks.....	17	.....
Riverside.....	do	25 rabbits.....	25	.....
San Benito.....	do	3 rabbits, 1 gopher.....	4	.....
San Joaquin.....	do	7 rabbits, 7 weasels.....	14	.....
San Luis Obispo.....	do	5 rabbits.....	5	.....
Santa Clara.....	do	1 rabbit, 3 chipmunks.....	4	.....
Sonoma.....	do	1 rabbit, 1 chipmunk.....	2	.....
Stanislaus.....	do	2 rabbits.....	2	.....
Tehama.....	do	1 rabbit.....	1	.....
Yolo.....	do	5 rabbits.....	5	.....
Total.....			101	.....

## SMALLPOX IN THE UNITED STATES.

In the following tables the States indicated by an asterisk are those from which reports of smallpox are received only from certain city and, in some cases, county boards of health. In these States, therefore, the recorded cases and deaths should not be taken as showing the general prevalence of the disease. In the States not marked by an asterisk the reports are received monthly from the State boards of health and include all cases reported throughout the State.

## Reports Received During Week Ended June 9, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
* Alabama:				
Montgomery.....	May 21-27.....	1		
California:				
Counties—				
Los Angeles.....	Mar. 1-31.....	1		
Monterey.....	do.....	1		
Napa.....	do.....	1		
Riverside.....	do.....	17		
Santa Cruz.....	do.....	1		
Total for State.....		21		
District of Columbia.....	May 21-27.....	1		
Florida:				
Counties—				
Brevard.....	May 14-20.....	2		
Duval.....	do.....	15		
Hillsboro.....	do.....	1		
Polk.....	do.....	9		
Volusia.....	do.....	2		
Total for State.....		29		
Louisiana:				
New Orleans.....	May 21-27.....	3		
Maine:				
Counties—				
Penobscot.....	May 1-31.....	1		
Piscataquis.....	do.....	3		
Total for State.....		4		
Michigan:				
Counties—				
Antrim.....	Apr. 1-30.....	3		
Calhoun.....	do.....	2		
Cheboygan.....	do.....	11		
Eaton.....	do.....	2		
Emmet.....	do.....	11		
Huron.....	do.....	2		
Ionia.....	do.....	3		
Iron.....	do.....	1		
Isabella.....	do.....	3		
Lenawee.....	do.....	1		
Mason.....	do.....	1		
Muskegon.....	do.....	2		
Oceana.....	do.....	2		
St. Clair.....	do.....	1		
Van Buren.....	do.....	1		
Washtenaw.....	do.....	5		
Wayne.....	do.....	1		
Total for State.....		52		
* Mississippi:				
Gulfport.....	May 13-19.....	1		
* Nebraska:				
Omaha.....	May 21-27.....	7		



## SMALLPOX IN THE UNITED STATES—Continued.

## Reports Received During Week Ended June 9, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>New York:</b>				
Counties—				
Erie.....	Apr. 1-30.....	4		
Niagara.....	.....do.....	1		
Total for State.....		5		
<b>* Rhode Island:</b>				
Providence.....	May 21-27.....	1		
<b>* Tennessee:</b>				
Knoxville.....	.....do.....	12		
<b>Utah:</b>				
Counties—				
Beaver.....	Apr. 1-30.....	14		
Boxelder.....	.....do.....	6		
Cache.....	.....do.....	37	1	
Davis.....	.....do.....	10		
Garfield.....	.....do.....	11		
Salt Lake.....	.....do.....	12		
Sanpete.....	.....do.....	41		
Sevier.....	.....do.....	17		
Tooele.....	.....do.....	60		
Utah.....	.....do.....	11		
Washington.....	.....do.....	1		
Weber.....	.....do.....	40	1	
Total for State.....		260	2	

## Reports Received from Dec. 31, 1910, to June 2, 1911.

[For reports received from June 25, 1910, to Dec. 30, 1910, see Public Health Reports for Dec. 30, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Places.	Date.	Cases.	Deaths.	Remarks.
<b>* Alabama:</b>				
Birmingham.....	Apr. 2-May 6.....	4		One case from steamship Alamo, from New York via Key West and Tampa.
Mobile Quarantine Station..	May 8.....			
Montgomery.....	Dec. 11-Apr. 28..	28		
Total for State.....		32		
<b>California:</b>				
Counties—				
Alameda.....	Dec. 1-31.....	3		
Imperial.....	do.....	1		
Humboldt.....	Dec. 1-Jan. 31.....	2		
Kern.....	Dec. 1-31.....	1		
Los Angeles.....	do.....	1		
Mariposa.....	Jan. 1-31.....	1		
Riverside.....	Jan. 1-Feb. 28.....	7	1	
San Bernardino.....	Jan. 1-31.....	3		
San Diego.....	Dec. 1-Feb. 28.....	16	1	
San Francisco.....	do.....	11		
San Joaquin.....	Dec. 1-31.....	2		
Santa Clara.....	Feb. 1-28.....	1		
Santa Cruz.....	do.....	1		
Ventura.....	Jan. 1-31.....	9		
Total for State.....		59	2	
<b>Colorado:</b>				
Counties—				
Adams.....	Dec. 1-Jan. 31.....	6		
Arapahoe.....	Dec. 1-Feb. 28.....	19		
Archuleta.....	Dec. 1-Mar. 31.....	35		
Boulder.....	do.....	28		
Chaffee.....	Mar. 1-31.....	2		
Conejos.....	Dec. 1-31.....	2		
Costilla.....	Jan. 1-31.....	5		
Delta.....	Feb. 1-Mar. 31.....	11		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Colorado—Continued.</b>				
<b>Counties—Continued.</b>				
Denver.....	Dec. 1–Mar. 31....	317	.....	
Douglas.....	Mar. 1–31.....	1	.....	
Eagle.....	Jan. 1–31.....	1	.....	
Elbert.....	Feb. 1–Mar. 31....	21	.....	
El Paso.....	Dec. 1–Mar. 31....	26	.....	
Fremont.....	.....do.....	12	.....	
Garfield.....	Jan. 1–31.....	4	.....	
Gilpin.....	.....do.....	1	.....	
Grand.....	Dec. 1–31.....	2	.....	
Gunnison.....	Mar. 1–31.....	1	.....	
Huerfano.....	Dec. 1–Mar. 31....	20	.....	
Jefferson.....	.....do.....	15	.....	
Kit Carson.....	Jan. 1–31.....	1	.....	
La Plata.....	Dec. 1–Mar. 31....	24	.....	
Larimer.....	Jan. 1–Mar. 31....	99	.....	
Las Animas.....	Dec. 1–Mar. 31....	51	.....	
Lincoln.....	Mar. 1–31.....	2	.....	
Logan.....	.....do.....	2	.....	
Mineral.....	Jan. 1–31.....	2	.....	
Montezuma.....	Dec. 1–31.....	1	.....	
Montrose.....	Jan. 1–Mar. 31....	15	.....	
Morgan.....	Dec. 1–Mar. 31....	54	.....	
Otero.....	Feb. 1–Mar. 31....	11	.....	
Phillips.....	Feb. 1–28.....	20	.....	
Pueblo.....	Dec. 1–Mar. 31....	6	1	
Rio Grande.....	Jan. 1–Mar. 31....	14	.....	
Saguache.....	Dec. 1–31.....	3	.....	
Sedgwick.....	Mar. 1–31.....	3	.....	
Summit.....	Feb. 1–28.....	1	.....	
Teller.....	Jan. 1–Mar. 31....	9	.....	
Weld.....	Feb. 1–Mar. 31....	10	.....	
Yuma.....	Mar. 1–31.....	1	.....	
Total.....		858	1	
Connecticut.....	Dec. 1–Apr. 30....			No cases.
*Delaware:				
Reedy Island Quarantine.....	May 1.....			One case from s. s. Haverford from Liverpool.
District of Columbia.....	Jan. 15–May 20....	16		
<b>Florida:</b>				
<b>Counties—</b>				
Alachua.....	Dec. 18–Apr. 22....	88	1	
Baker.....	Jan. 8–14.....	1	.....	
Bradford.....	Jan. 16–May 6.....	8	.....	
Brevard.....	Feb. 19–25.....	5	.....	
Calhoun.....	Jan. 29–Mar. 25....	27	.....	
Citrus.....	Jan. 8–Mar. 11....	2	.....	
Clay.....	May 16–22.....	11	.....	
Dade.....	Dec. 25–May 13....	6	.....	
De Soto.....	Mar. 1–May 13....	6	.....	
Duval.....	Jan. 1–May 13....	325	1	
Escambia.....	.....do.....	123	.....	
Franklin.....	Jan. 8–May 13....	27	1	
Gadsden.....	Dec. 18–May 13....	128	.....	
Hamilton.....	Mar. 26–Apr. 1.....	1	.....	
Hillsboro.....	Dec. 25–May 13....	130	.....	
Jackson.....	.....do.....	193	.....	
Fernando.....	Mar. 19–25.....	1	.....	
Jefferson.....	Feb. 5–May 6.....	5	.....	
Lafayette.....	Jan. 16–Feb. 4.....	6	.....	
Lake.....	Jan. 22–Apr. 8.....	11	.....	
Lee.....	Jan. 8–Mar. 4.....	21	.....	
Leon.....	Dec. 18–May 6.....	144	2	
Levy.....	Jan. 29–May 6.....	4	.....	
Liberty.....	Feb. 26–Apr. 15....	7	.....	
Madison.....	Dec. 18–Jan. 21....	19	.....	
Manatee.....	Mar. 26–Apr. 1.....	1	.....	
Marion.....	May 7–13.....	1	.....	
Nassau.....	Jan. 16–21.....	2	.....	
Orange.....	.....do.....	1	.....	
Osceola.....	Mar. 25.....	3	.....	
Pasco.....	Apr. 2–8.....	5	.....	
Polk.....	Dec. 18–May 13....	142	.....	
Putnam.....	Feb. 12–Apr. 22....	9	.....	
St. John.....	Jan. 22–May 6.....	7	.....	
Santa Rosa.....	Jan. 8–Apr. 29....	38	.....	
Sumpter.....	May 7–13.....	1	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Florida—Continued.</b>				
<b>Counties—Continued</b>				
Suwanee.....	Jan. 16-21.....	1		
Taylor.....	Jan. 8-Feb. 4.....	140		
Volusia.....	Jan. 22-Mar. 4.....	14		
Wakulla.....	Mar. 1-31.....	2		
Walton.....	Dec. 25-Feb. 25.....	8		
Washington.....	Jan. 8-Apr. 8.....	8		
Total for State.....		1,682	5	
<b>*Georgia:</b>				
Macon.....	Mar. 1-Apr. 30.....	14		
<b>Illinois:</b>				
<b>Counties—</b>				
Adams.....	Feb. 1-Apr. 30.....	6		
Alexander.....	Apr. 1-30.....	1		
Bond.....	Jan. 1-Apr. 30.....	10		
Carroll.....	Feb. 1-28.....	1		
Clay.....	Feb. 1-Mar. 31.....	4		
Clinton.....	Mar. 1-Apr. 30.....	44		
Coles.....	Dec. 1-Apr. 30.....	15		
Cook.....	do.....	59		
Douglas.....	Mar. 1-Apr. 30.....	8		
Edgar.....	do.....	9		
Effingham.....	Dec. 31-Feb. 28.....	2		
Fulton.....	Apr. 1-30.....	5		
Jackson.....	Mar. 1-Apr. 30.....	10		
Jasper.....	Dec. 1-31.....	4		
Jefferson.....	do.....	4		
Kane.....	Dec. 1-Apr. 30.....	30		
Livingston.....	Mar. 1-31.....	1		
Logan.....	Apr. 1-30.....	3		
McLean.....	Jan. 1-Apr. 30.....	23		
Macoupin.....	Feb. 1-Mar. 31.....	2		
Madison.....	Dec. 1-Apr. 30.....	22		
Mercer.....	Apr. 1-30.....	1		
Massac.....	Mar. 1-31.....	1		
Montgomery.....	Apr. 1-30.....	6		
Morgan.....	do.....	5		
Peoria.....	Dec. 1-Mar. 31.....	9		
Perry.....	Dec. 1-31.....	2		
Pulaski.....	Mar. 1-Apr. 30.....	3		
Rock Island.....	Mar. 1-31.....	1		
Saint Clair.....	Apr. 1-30.....	7		
Saline.....	Jan. 1-Feb. 28.....	8		
Shelby.....	Mar. 1-Apr. 30.....	8		
Stevenson.....	Jan. 1-31.....	3		
Tazewell.....	Mar. 1-31.....	2		
Union.....	Dec. 1-Feb. 28.....	17		
Vermillion.....	Jan. 1-Apr. 30.....	20		
Washington.....	Feb. 1-28.....	1		
White.....	Apr. 1-30.....	12		
Williamson.....	Jan. 1-31.....	1		
Total for State.....		368		
<b>Indiana:</b>				
<b>Counties—</b>				
Adams.....	Feb. 1-28.....	6		
Allen.....	Feb. 1-Apr. 30.....	5		
Benton.....	Apr. 1-30.....	1		
Blackford.....	Feb. 1-Apr. 30.....	21		
Cass.....	Jan. 1-Apr. 30.....	29	1	
Clark.....	Mar. 1-Apr. 30.....	21		
Clay.....	Feb. 1-Apr. 30.....	11		
Daviess.....	Feb. 1-28.....	1		
Decatur.....	Jan. 1-Apr. 30.....	4		
Dekalb.....	Dec. 1-Feb. 28.....	9		
Delaware.....	Feb. 1-Apr. 30.....	19		
Elkhart.....	Dec. 1-31.....	5		
Floyd.....	Apr. 1-30.....	4		
Fountain.....	Mar. 1-Apr. 30.....	3	1	
Greene.....	Feb. 1-28.....	1		
Howard.....	Dec. 1-Apr. 30.....	49		
Huntington.....	Feb. 1-Apr. 30.....	5		
Jay.....	Apr. 1-30.....	1		
Jennings.....	Jan. 1-31.....	6		
Knox.....	Dec. 1-Mar. 31.....	11		
Lake.....	Mar. 1-31.....	1		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Indiana—Continued.</b>				
<b>Counties—Continued.</b>				
Laporte.....	Apr. 1-30.....	5		
Madison.....	Dec. 1-Apr. 30.....	199		
Marion.....	Jan. 1-Apr. 30.....	5		
Miami.....	Apr. 1-30.....	1		
Montgomery.....	Dec. 1-Mar. 31.....	15		
Monroe.....	Mar. 1-31.....	1		
Noble.....	Jan. 1-31.....	1		
Posey.....	Jan. 1-Apr. 30.....	2		
Pulaski.....	Apr. 1-30.....	1		
Shelby.....	Mar. 1-31.....	25		
St. Joseph.....	Feb. 1-Apr. 30.....	8		
Steuben.....	Jan. 1-Feb. 28.....	7		
Sullivan.....	Mar. 1-Apr. 30.....	3		
Tippecanoe.....	Mar. 1-31.....	1		
Tipton.....	Apr. 1-30.....	7		
Vermillion.....	Apr. 1-30.....	3		
Vigo.....	Jan. 1-Mar. 31.....	24		
Wabash.....	Feb. 1-Mar. 31.....	18		
Warren.....	Jan. 1-Mar. 31.....	2		
Wayne.....	Jan. 1-Apr. 30.....	28		
Wells.....	Mar. 1-Apr. 30.....	7		
White.....	Apr. 1-30.....	2		
Total for State.....		578	2	
<b>Iowa:</b>				
<b>Counties—</b>				
Benton.....	Jan. 1-Apr. 30.....	13		
Blackhawk.....	Feb. 1-Apr. 30.....	28		
Boone.....	Feb. 1-28.....	1		
Buena Vista.....	Dec. 1-31.....	1		
Carroll.....	Mar. 1-31.....	3		
Cherokee.....	do.....	1		
Dallas.....	Feb. 1-Mar. 31.....	3		
Decatur.....	Mar. 1-31.....	2		
Dubuque.....	Feb. 1-28.....	1		
Fayette.....	Apr. 1-30.....	2		
Fremont.....	Feb. 1-Mar. 31.....	8		
Grundy.....	Apr. 1-30.....	1		
Guthrie.....	Jan. 1-Apr. 30.....	8		
Hancock.....	Jan. 1-31.....	3		
Iowa.....	Apr. 1-30.....	1		
Jasper.....	do.....	3		
Jefferson.....			1	Year 1910, in delinquent report received after Jan. 1, 1911.
Johnson.....	Jan. 1-31.....	1		
Jones.....	Apr. 1-30.....	1		
Keokuk.....	do.....	7		
Lee.....	Dec. 1-31.....	1		
Linn.....	Dec. 1-Apr. 30.....	122	1	
Lucas.....	Jan. 1-31.....	1		
Lyon.....	Dec. 1-Apr. 30.....	5		
Madison.....	Apr. 1-30.....	1		
Mahaska.....	Feb. 1-28.....	1		
Marshall.....	Dec. 1-Apr. 30.....	17		
Mills.....	Apr. 1-30.....	3		
Montgomery.....	do.....	3		
Muscatine.....	Mar. 1-31.....	1		
Page.....	Dec. 1-Mar. 31.....	36	1	
Plymouth.....	Mar. 1-Apr. 30.....	2		
Polk.....	Dec. 1-Apr. 30.....	38		
Pottawattamie.....	Jan. 1-Apr. 30.....	18		
Sac.....	Apr. 1-30.....	16		
Scott.....	Dec. 1-Feb. 28.....	7		
Sioux.....	Feb. 1-Mar. 31.....	2		
Tama.....	Mar. 1-31.....	1		
Taylor.....	Dec. 1-31.....	64		
Union.....	Jan. 1-Feb. 28.....	3		
Warren.....	Dec. 1-Apr. 30.....	3		
Webster.....	Dec. 1-31.....	10		
Winnebago.....	Jan. 1-31.....	1		
Woodbury.....	Dec. 1-Mar. 31.....	15		
Total for State.....		459	3	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Dates.	Cases.	Deaths.	Remarks.
<b>Kansas:</b>				
Counties—				
Pawnee.....	Nov. 1-30.....	1		
Reno.....	do.....	1		
Allen.....	Dec. 1-Feb. 28.....	7		
Anderson.....	Jan. 1-31.....	1		
Atchison.....	Dec. 1-Mar. 31.....	32		
Barton.....	Feb. 1-Mar. 28.....	2		
Bourbon.....	Mar. 1-31.....	8		
Brown.....	Dec. 1-Mar. 31.....	57	1	
Butler.....	Dec. 1-Jan. 31.....	2		
Cherokee.....	Dec. 1-Mar. 31.....	119		
Clay.....	Dec. 1-Feb. 28.....	15		
Cloud.....	Feb. 1-Mar. 31.....	76		
Crawford.....	Feb. 1-28.....	3		
Decatur.....	Dec. 1-31.....	1		
Dickinson.....	Dec. 1-Mar. 31.....	34		
Doniphan.....	do.....	23		
Douglas.....	Jan. 1-Feb. 28.....	7		
Ford.....	Mar. 1-31.....	1		
Greenwood.....	Feb. 1-Mar. 31.....	92		
Harper.....	Jan. 1-Mar. 31.....	20		
Jackson.....	Feb. 1-Mar. 31.....	11		
Jefferson.....	Dec. 1-Mar. 31.....	13		
Jewell.....	Jan. 1-31.....	17		
Johnson.....	Dec. 1-Mar. 31.....	34		
Kearny.....	Jan. 1-Mar. 31.....	2		
Kingman.....	Dec. 1-Feb. 28.....	2		
Leavenworth.....	Jan. 1-Mar. 31.....	11		
Leavenworth.....	Dec. 1-Mar. 31.....	5	1	
Linn.....	Mar. 1-31.....	3		
Lyon.....	Jan. 1-31.....	1		
McPherson.....	Feb. 1-Mar. 31.....	6		
Marion.....	Jan. 1-Feb. 28.....	6		
Marshall.....	Dec. 1-Mar. 31.....	136		
Miami.....	Feb. 1-28.....	1		
Mitchell.....	Apr. 1-30.....	18		
Montgomery.....	Dec. 1-Mar. 31.....	30		
Morris.....	Mar. 1-31.....	9		
Morton.....	Jan. 1-Feb. 28.....	12		
Nemaha.....	Dec. 1-Feb. 28.....	8		
Norton.....	Jan. 1-Mar. 31.....	5		
Osage.....	Dec. 1-Mar. 31.....	2		
Ottawa.....	Feb. 1-Mar. 31.....	39		
Pottawatomie.....	Jan. 1-Mar. 31.....	19		
Reno.....	Dec. 1-31.....	1		
Republic.....	Mar. 1-31.....	9		
Riley.....	Jan. 1-31.....	8		
Rooks.....	Dec. 1-Mar. 31.....	2		
Russell.....	Jan. 1-Feb. 28.....	2	1	
Saline.....	Jan. 1-Mar. 31.....	29		
Sedgwick.....	do.....	5		
Shawnee.....	Dec. 1-Mar. 31.....	14		
Sumner.....	Dec. 1-31.....	6		
Washington.....	Jan. 1-Feb. 28.....	5		
Wichita.....	Feb. 1-28.....	2		
Wilson.....	Feb. 1-28.....	1		
Wyandotte, exclusive of Kansas City.	Dec. 1.....	15		
Kansas City.....	Dec. 1-Mar. 31.....	52		
Total for State.....		1,048	3	
<b>*Kentucky:</b>				
Henderson.....	Feb. 22-28.....	4		
Lexington.....	Feb. 26-Apr. 8.....	3		
Newport.....	Apr. 23-May 6.....	2		
Paducah.....	Jan. 23-Apr. 22.....	33		
Total for State.....		42		
<b>Louisiana:</b>				
Parishes—				
Ascension.....	Dec. 1-31.....	1		
Calcasieu.....	Jan. 1-31.....	13	1	
East Baton Rouge.....	Dec. 1-31.....	25		
East Feliciana.....	do.....	30		
Iberville.....	do.....	6		
Lafourche.....	Jan. 1-31.....	16		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Louisiana—Continued.</b>				
<b>Parishes—Continued.</b>				
<b>Orleans—</b>				
New Orleans.....	Dec. 18-May 20....	220	1	
Rapides.....	Dec. 1-31.....	1		
St. Charles.....	do.....	4		
St. John.....	do.....	1		
Tangipahoa.....	Nov. 1-Dec. 31.....	22		
Tensas.....	Dec. 1-Jan. 31.....	20		
Washington.....	do.....	5		
Total for State.....		364	2	
<b>Maine.....</b>				
Dec. 1-Mar. 31.....				No cases.
<b>Counties—</b>				
Penobscot.....	Apr. 1-30.....	1		
Piscataquis.....	do.....	1		
Total for State.....		2		
<b>Maryland.....</b>				
Counties—				December and March, no cases.
Baltimore.....	Feb. 1-28.....	2		
Garrett.....	Jan. 1-Feb. 28.....	10		
Washington.....	Apr. 1-30.....	5		
Total for State.....		17		
<b>Massachusetts.....</b>				
Counties—				Nov. 1-Mar. 31, no cases.
Suffolk.....	Apr. 1-30.....	1		
<b>Michigan.....</b>				
Counties—	Jan. 1-Feb. 28.....	16		Not previously reported.
Alcona.....	Dec. 1-31.....	1		
Alger.....	Dec. 1-Feb. 28.....	2		
Alpena.....	Jan. 1-Mar. 31.....	2		
Antrim.....	do.....	8		
Arenac.....	Dec. 1-Jan. 31.....	7		
Bay.....	do.....	2		
Barry.....	Feb. 1-28.....	1		
Calhoun.....	Dec. 1-Feb. 28.....	17	1	
Cass.....	Feb. 1-28.....	2		
Charlevoix.....	Dec. 1-Feb. 28.....	24		
Cheboygan.....	Dec. 1-Mar. 31.....	38		
Chippewa.....	Mar. 1-31.....	1		
Clare.....	Jan. 1-31.....	8		
Clinton.....	Dec. 1-31.....	3		
Crawford.....	Dec. 1-Jan. 31.....	6		
Eaton.....	do.....	6		
Emmet.....	Jan. 1-Mar. 31.....	84		
Genesee.....	Dec. 1-Feb. 28.....	14	1	
Gladwin.....	do.....	4	1	
Grand Traverse.....	Dec. 1-Mar. 31.....	4		
Gratiot.....	Dec. 1-Feb. 28.....	10		
Houghton.....	Feb. 1-28.....	5		
Huron.....	Jan. 1-31.....	8		
Ingham.....	Dec. 1-Mar. 31.....	4		
Ionia.....	Jan. 1-Mar. 31.....	25		
Isabella.....	Dec. 1-Mar. 31.....	22		
Kalamazoo.....	Dec. 1-Jan. 31.....	6		
Kent.....	Mar. 1-31.....	2		
Keweenaw.....	Dec. 1-Feb. 28.....	16		
Lake.....	Dec. 1-31.....	3		
Lapeer.....	do.....	1		
Leelanau.....	Jan. 1-31.....	2		
Livingston.....	Feb. 1-28.....	1		
Mackinac.....	do.....	4		
Macomb.....	Feb. 1-Mar. 31.....	14		
Marquette.....	Dec. 1-Mar. 31.....	11		
Mason.....	Mar. 1-31.....	2		
Midland.....	Dec. 1-31.....	3		
Missaukee.....	do.....	3		
Monroe.....	do.....	2		
Muskegon.....	Jan. 1-Mar. 31.....	2		
Newaygo.....	Jan. 1-31.....	3		
Oceana.....	Mar. 1-31.....	15		
Presque Isle.....	Dec. 1-Mar. 31.....	2		
Saginaw.....	do.....	4	3	
Sanilac.....	Jan. 1-Feb. 28.....	8		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Michigan—Continued.</b>				
<b>Counties—Continued.</b>				
St. Clair.....	Dec. 1-Mar. 31....	10	.....	
Shiawassee.....	Mar. 1-31.....	3	.....	
Tuscola.....	.....do.....	1	.....	
Washtenaw.....	Dec. 1-Jan. 31....	3	.....	
Wayne.....	Dec. 1-Mar. 31....	6	.....	
Wexford.....	.....do.....	6	.....	
Total for State.....		457	6	
<b>Minnesota:</b>				
<b>Counties—</b>				
Beltrami.....	Dec. 19-Feb. 13....	6	.....	
Bigstone.....	Dec. 26-Jan. 1....	1	.....	
Blue Earth.....	Dec. 19-Mar. 20....	2	.....	
Cass.....	Apr. 25-May 1.....	4	.....	
Dakota.....	Feb. 1-Mar. 27....	2	.....	
Douglas.....	Dec. 5-Apr. 17....	4	.....	
Fillmore.....	Nov. 27-Apr. 24....	6	.....	
Hennepin.....	Dec. 3-Apr. 3.....	103	.....	
Hubbard.....	Apr. 25-May 1.....	1	.....	
Itasca.....	Feb. 20-27.....	1	.....	
Kandiyohi.....	Jan. 24-30.....	1	.....	
Koochiching.....	Dec. 5-Feb. 13....	12	.....	
Lac qui Parle.....	Jan. 10-16.....	1	.....	
Le Sueur.....	Dec. 26-Mar. 16....	5	.....	
Lyon.....	Feb. 14-Apr. 10....	8	.....	
Marshall.....	Mar. 1-6.....	1	.....	
Mower.....	Apr. 18-May 1.....	4	.....	
Murray.....	Jan. 17-Apr. 6.....	7	.....	
Nobles.....	Dec. 5-Feb. 27....	4	.....	
Norman.....	Dec. 12-May 1.....	27	.....	
Olmstead.....	Jan. 10-Apr. 10....	7	.....	
Ottertail.....	Mar. 7-May 1.....	8	.....	
Pipestone.....	Jan. 10-Apr. 17....	12	.....	
Pope.....	Jan. 3-9.....	3	.....	
Ramsey.....	Dec. 5-May 1.....	266	.....	
Redwood.....	Apr. 25-May 1.....	1	.....	
Renville.....	Apr. 11-17.....	3	.....	
Rice.....	Feb. 14-20.....	1	.....	
Rock.....	Feb. 1-Apr. 24....	2	.....	
Sherburne.....	Apr. 18-May 1.....	2	.....	
St. Louis.....	Nov. 27-Apr. 10....	10	.....	
Sibley.....	Dec. 26-Jan. 16....	2	.....	
Steele.....	Mar. 1-31.....	1	.....	
Todd.....	Dec. 5-Apr. 10....	25	.....	
Traverse.....	Feb. 1-6.....	1	.....	
Wabasha.....	Dec. 26-Mar. 6.....	2	.....	
Wadena.....	Dec. 26-Jan. 2.....	2	.....	
Washington.....	Feb. 7-Mar. 20....	10	.....	
Winona.....	Jan. 17-23.....	1	.....	
Yellow Medicine.....	Apr. 25-May 1.....	1	.....	
Total for State.....		560		
<b>Mississippi:</b>				
Biloxi.....	Mar. 13.....			Present.
<b>*Missouri:</b>				
Kansas City.....	Nov. 1-Apr. 29....	288	.....	
St. Joseph.....	Feb. 5-18.....	16	.....	
St. Louis.....	Dec. 18-May 23....	82	1	
Springfield.....	Feb. 5-May 6.....	32	.....	
Total for State.....		418	1	
<b>Montana:</b>				
<b>Counties—</b>				
Beaverhead.....	Jan. 1-Mar. 31....	5	.....	
Carbon.....	Mar. 1-31.....	1	.....	
Cascade.....	Dec. 1-Mar. 31....	25	.....	
Chouteau.....	Jan. 1-Feb. 28....	8	.....	
Custer.....	Dec. 1-Jan. 31....	2	.....	
Dawson.....	Nov. 1-Mar. 31....	10	.....	
Deer Lodge.....	.....do.....	18	.....	
Gallatin.....	Feb. 1-28.....	1	1	
Jefferson.....	.....do.....	1	.....	
Lewis and Clark.....	Feb. 1-Mar. 31....	2	.....	
Missoula.....	Jan. 1-31.....	2	.....	
Powell.....	.....do.....	1	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Montana—Continued.</b>				
<b>Counties—Continued.</b>				
Revalli.....	Dec. 1-Mar. 31....	12	.....	
Silver Bow, exclusive of Butte.....	Nov. 1-Mar. 31....	33	.....	
Butte.....	.....do.....	74	.....	
Teton.....	Jan. 1-Mar. 31....	16	.....	
Total for State.....		211	1	
<b>*Nebraska:</b>				
Lincoln.....	Dec. 1-Jan. 31....	31	.....	
Omaha.....	Apr. 1-May 20....	44	.....	
South Omaha.....	Jan. 1-May 13....	24	.....	
Total for State.....		99	.....	
<b>New Jersey:</b>				
<b>Counties—</b>				
Bergen.....	Dec. 1-Mar. 31....	3	.....	
Camden.....	Mar. 1-31.....	1	.....	
Middlesex.....	Jan. 1-31.....	1	.....	
Salem.....	Jan. 1-Feb. 28....	27	.....	
Total for State.....		32	.....	
<b>New York:</b>				
<b>Counties—</b>				
Allegany.....	Nov. 1-30.....	1	.....	
Chautauqua.....	Jan. 1-31.....	4	.....	
Columbia.....	.....do.....	1	.....	
Erie.....	Mar. 1-31.....	4	.....	
New York.....	.....do.....	1	.....	
Niagara.....	Dec. 1-Jan. 31....	2	.....	
Onondaga.....	Jan. 1-31.....	1	.....	
St. Lawrence.....	Feb. 1-Mar. 31....	5	.....	
Steuben.....	Feb. 1-28.....	1	.....	
Tioga.....	Dec. 1-31.....	1	.....	
Tompkins.....	Nov. 1-30.....	1	.....	
Total for State.....		22	.....	
<b>North Carolina:</b>				
<b>Counties—</b>				
Alamance.....	Jan. 1-Apr. 30....	20	.....	
Beaufort.....	Dec. 1-Mar. 31....	43	.....	
Bertie.....	Jan. 1-Feb. 28....	2	.....	
Bladen.....	Nov. 1-Mar. 31....	125	.....	Present in April.
Brunswick.....	Dec. 1-Mar. 31....	56	.....	Present in Feb. and Apr.
Burke.....	Jan. 1-Mar. 31....	5	.....	
Carteret.....	Nov. 1-Jan. 31....	4	.....	
Caswell.....	Jan. 1-31.....	9	.....	
Catawba.....	Apr. 1-30.....	1	.....	
Chatham.....	Dec. 1-Apr. 30....	82	.....	
Cherokee.....	Feb. 1-28.....	15	.....	
Cleveland.....	Jan. 1-31.....	.....	.....	Present.
Columbus.....	Nov. 1-Apr. 30....	81	.....	
Craven.....	Jan. 1-Mar. 31....	13	.....	
Cumberland.....	Nov. 1-Apr. 30....	70	.....	
Currituck.....	Jan. 1-31.....	2	.....	
Duplin.....	Dec. 1-Apr. 30....	62	.....	
Durham.....	Nov. 1-Apr. 30....	570	.....	
Edgecombe.....	Nov. 4-Jan. 31....	7	.....	
Forsyth.....	Mar. 1-31.....	3	.....	
Franklin.....	Nov. 1-Apr. 30....	15	.....	
Granville.....	Dec. 1-Feb. 28....	28	.....	
Guilford.....	Mar. 1-Apr. 30....	37	.....	
Halifax.....	Mar. 1-31.....	1	.....	
Harnett.....	Mar. 1-Apr. 30....	63	.....	
Haywood.....	Apr. 1-30.....	4	.....	
Henderson.....	Dec. 1-Apr. 30....	39	.....	
Hertford.....	Dec. 1-31.....	1	.....	
Iredell.....	Mar. 1-31.....	4	.....	
Jackson.....	.....do.....	4	.....	
Johnston.....	Dec. 1-Apr. 30....	11	.....	Present in January.
Jones.....	Jan. 1-Mar. 31....	14	.....	
Lee.....	Dec. 1-Apr. 30....	12	.....	
Lenoir.....	Jan. 1-31.....	2	.....	
Martin.....	Nov. 1-Dec. 31....	17	.....	
Mecklenburg.....	Jan. 1-Feb. 28....	7	.....	
Nash.....	Nov. 1-Apr. 30....	7	.....	



## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Counties—Continued.				
New Hanover.....	Nov. 1-Apr. 30....	733		
Northampton.....	Jan. 1-Mar. 31....	21		
Onslow.....	Dec. 1-Apr. 30....	90		
Orange.....	Jan. 1-31.....	12		Present in February.
Pasquotank.....	Nov. 1-Apr. 30....	9		
Pender.....	Nov. 1-Jan. 31....	127		Present February, March, and April.
Person.....	Jan. 1-Feb. 28....	2		
Pitt.....	Nov. 1-Feb. 28....	34		
Robeson.....	Nov. 1-Apr. 30....	240		Present in February.
Rockingham.....	Apr. 1-30.....	1		
Rowan.....	Dec. 1-Feb. 28....	5		
Rutherford.....	Feb. 1-28.....	1		
Sampson.....	Dec. 1-Feb. 28....	33		Present in March.
Scotland.....	Feb. 1-28.....	6		Present in April.
Stokes.....	Apr. 1-30.....	2		
Surry.....	do.....	11		
Union.....	Nov. 1-Apr. 30....	13		
Vance.....	Jan. 1-Apr. 30....	35		
Wake.....	Nov. 1-Mar. 31....	61		
Washington.....	Jan. 1-31.....	2		
Watauga.....	Feb. 1-28.....	1		
Wayne.....	Dec. 1-Feb. 28....	14		
Wilkes.....	Jan. 1-Apr. 30....	8		
Total for State.....		2,897		
North Dakota:				
Counties—				
Billings.....	Jan. 1-Mar. 31....	27		
Cass.....	Dec. 1-31.....	1		
Grand Forks.....	Jan. 1-31.....	1		
Lamoure.....	Feb. 1-28.....	6		
McIntosh.....	Jan. 1-Feb. 28....	2		
Morton.....	Dec. 1-31.....	1		
Nelson.....	Mar. 1-31.....	1		
Ramsey.....	Jan. 1-31.....	1		
Steele.....	Dec. 1-Jan. 31....	19		
Stutsman.....	Jan. 1-Feb. 28....	17		
Wells.....	Mar. 1-31.....	1		
Total for State.....		77		
Ohio:				
Counties—				
Adams.....	Apr. 1-30.....	25		
Ashland.....	Jan. 1-Apr. 30....	3		
Butler.....	Mar. 1-31.....	1		
Clark.....	Jan. 1-Apr. 30....	60	1	
Cuyahoga.....	Mar. 1-Apr. 30....	5		
Darke.....	do.....	17		
Delaware.....	Feb. 1-Mar. 31....	2		
Franklin.....	Dec. 1-Apr. 30....	14		
Fulton.....	Jan. 1-31.....	4		
Hardin.....	Apr. 1-30.....	1		
Hamilton.....	Dec. 1-Apr. 30....	21		
Lorain.....	Dec. 1-31.....	2		
Lucas.....	Mar. 1-Apr. 30....	7		
Marion.....	do.....	71		
Miami.....	Feb. 1-28.....	1		
Monroe.....	Mar. 1-31.....	1		
Montgomery.....	Jan. 1-Feb. 28....	2		
Portage.....	Dec. 1-31.....	1		
Ross.....	Jan. 1-31.....	1		
Scioto.....	Mar. 1-Apr. 30....	8		
Williams.....	Jan. 1-Mar. 31....	4		
Wood.....	Mar. 1-Apr. 30....	4		
Total for State.....		255	1	
Oklahoma:				
Counties—				
Adair.....	Nov. 1-30.....	1		
Atoka.....	Dec. 1-Feb. 28....	2		
Beckham.....	Nov. 1-Mar. 31....	80		
Blaine.....	Nov. 1-Feb. 28....	19		
Bryan.....	Nov. 1-Mar. 31....	28		
Caddo.....	do.....	30		
Canadian.....	Nov. 1-Jan. 31....	34		
Carter.....	Mar. 1-31.....	3		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Oklahoma—Continued.</b>				
<b>Counties—Continued.</b>				
Cherokee.....	Jan. 1-Feb. 28.....	4		
Choctaw.....	Jan. 1-Mar. 31.....	24		
Cleveland.....	Feb. 1-Mar. 31.....	13		
Coal.....	Feb. 1-28.....	20	1	
Comanche.....	Jan. 1-Mar. 31.....	8		
Creek.....	Mar. 1-31.....	28		
Custer.....	Dec. 1-Jan. 31.....	9		
Garfield.....	Dec. 1-Feb. 28.....	2		
Grady.....	Nov. 1-Feb. 28.....	7	1	
Green.....	Nov. 1-30.....	1		
Hughes.....	Nov. 1-Mar. 31.....	62		
Jackson.....	Jan. 1-Mar. 31.....	71		
Johnston.....	Jan. 1-31.....	1		
Key.....	Dec. 1-31.....	1		
Kingfisher.....	Feb. 1-Mar. 31.....	3		
Kiowa.....	do.....	3		
Latimer.....	Dec. 1-31.....	1		
Le Flore.....	Mar. 1-31.....	2		
Lincoln.....	Jan. 1-Mar. 31.....	71		
McClain.....	Mar. 1-31.....	4		
McCurtain.....	Jan. 1-Mar. 31.....	43		
McIntosh.....	Nov. 1-Dec. 31.....	12		
Major.....	Dec. 1-31.....	4		
Marshall.....	Nov. 1-Mar. 31.....	12		
Muskogee.....	Feb. 1-28.....	1		
Noble.....	Mar. 1-31.....	2		
Nowata.....	Jan. 1-Mar. 31.....	12		
Okfuskee.....	do.....	12		
Oklahoma.....	Dec. 1-Mar. 31.....	24		
Okmulgee.....	Jan. 1-Mar. 31.....	25		
Ossage.....	Dec. 1-Jan. 31.....	3		
Payne.....	Feb. 1-Mar. 31.....	6		
Pittsburg.....	Dec. 1-Feb. 28.....	4		
Pontotoc.....	Jan. 1-Mar. 31.....	8		
Pottawatomie.....	Jan. 1-31.....	6		
Roger Mills.....	Mar. 1-31.....	1		
Seminole.....	Dec. 1-Jan. 31.....	9		
Stephens.....	Dec. 1-31.....	1		
Tulsa.....	Nov. 1-Mar. 31.....	10		
Washington.....	Dec. 1-Feb. 28.....	2		
Washita.....	Nov. 1-Mar. 31.....	18		
Woods.....	Dec. 1-Jan. 31.....	11		
Total for State.....		758	2	
<b>Oregon:</b>				
<b>Counties—</b>				
Baker.....	Jan. 1-31.....	2		
Benton.....	Dec. 1-Mar. 31.....	2		
Columbia.....	Jan. 1-31.....	1		
Marion.....	Dec. 1-Feb. 28.....	10	4	
Multnomah.....	Oct. 1-Nov. 30.....	8		
Polk.....	Nov. 1-30.....	1		
Umatilla.....	Dec. 1-31.....	1		
Union.....	Jan. 1-31.....	1		
Total for State.....		26	4	
<b>Pennsylvania, entire State.....</b>				
	Oct. 1-31.....			No cases.
	Nov. 1-Mar. 31.....	31	1	
<b>*South Carolina:</b>				
Camden.....	Jan. 15-21.....	1		
Charleston.....	Feb. 1-Apr. 30.....	10		
Seven Mile.....	Mar. 1.....	9	1	
Total for State.....		20	1	
<b>*Tennessee:</b>				
<b>Counties—</b>				
Davidson.....				
Nashville.....	Jan. 8-Mar. 18.....	6		
Hamilton.....				
Chattanooga.....	Jan. 1-May 22.....	11	1	
Knox.....				
Knoxville.....	Jan. 22-May 20.....	75		
Shelby.....	Nov. 1-Apr. 30.....	402	3	
Total for State.....		494	4	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Texas</b> .....	Feb. 1-28.....		3	Reported out of date.
Counties—				
Bell.....	do.....	1		
Bowie.....	Mar. 1-31.....	4		
Cameron.....	Nov. 1-Apr. 30.....	141		
Cherokee.....	Jan. 1-Apr. 30.....	5		
Clay.....	Apr. 1-30.....	1		
Collin.....	Jan. 1-Apr. 30.....	34		
Dallas.....	Dec. 1-Apr. 30.....	32		
Denton.....	Mar. 1-Apr. 30.....	3		
Dewitt.....	Feb. 1-28.....	4		
El Paso.....	Jan. 1-Feb. 28.....	48	3	
Falls.....	Mar. 1-31.....	12		
Grimes.....	Nov. 1-30.....	4		
Guadalupe.....	Jan. 1-31.....	5	2	
Hall.....	Apr. 1-30.....	13		
Harrison.....	Mar. 1-31.....	5		
Henderson.....	Nov. 1-Apr. 30.....	23		
Hidalgo.....	Dec. 1-Apr. 30.....	8		
Houston.....	Mar. 1-31.....	2		
Jones.....	Jan. 1-31.....	3		
Lamar.....	Mar. 1-Apr. 30.....	11		
Lampasas.....	Apr. 1-30.....	1		
McLennan.....	Nov. 1-Apr. 30.....	27		
Marion.....	Dec. 1-Apr. 30.....	44		
Matagorda.....	Jan. 1-31.....	5		
Mitchell.....	Mar. 1-31.....	1		
Nueces.....	Jan. 1-Apr. 30.....	8		
Orange.....	Jan. 1-Feb. 28.....	9		
Palo Pinto.....	Mar. 1-31.....	1		
Red River.....	do.....	1		
Refugio.....	Mar. 1-Apr. 30.....	3		
Runnels.....	Jan. 1-31.....	1		
Swisher.....	Dec. 1-31.....	2		
Tarrant.....	Dec. 1-Apr. 30.....	16		
Taylor.....	Jan. 1-31.....	1		
Titus.....	Apr. 1-30.....	1		
Upshur.....	Mar. 1-Apr. 30.....	9		
Uvalde.....	Jan. 1-31.....	1		
Van Zant.....	Nov. 1-Feb. 28.....	9	1	
Wichita.....	Mar. 1-Apr. 30.....	28		
Williamson.....	Apr. 1-30.....	1	1	
Total for State.....		535	10	
<b>Utah</b> .....				
Counties—				
Beaver.....	Nov. 1-Mar. 31.....	134	1	
Boxelder.....	Jan. 1-Mar. 31.....	65		
Cache.....	Nov. 1-Mar. 31.....	36		
Davis.....	Dec. 1-Jan. 31.....	4		
Garfield.....	Mar. 1-31.....	3		
Iron.....	Nov. 1-Feb. 28.....	83		
Juab.....	Nov. 1-Mar. 31.....	13		
Millard.....	Nov. 1-Feb. 28.....	50		
Mute.....	Jan. 1-31.....	14		
Rich.....	Feb. 1-28.....	13		
Salt Lake.....	Nov. 1-Mar. 31.....	83		
Sanpete.....	Dec. 1-Mar. 31.....	17		
Sevier.....	Dec. 1-Feb. 28.....	52		
Utah.....	Jan. 1-Mar. 31.....	75		
Washington.....	Nov. 1-Mar. 31.....	65		
Weber.....	do.....	68		
Total for State.....		775	1	
<b>Vermont</b> .....	Jan. 1-May 26.....			No cases.
<b>Virginia</b> .....				
Counties—				
Appomattox.....	Jan. 1-31.....	3		
Alexandria.....	do.....	5		
Culpepper.....	Jan. 1-Feb. 28.....	4		
Dinwiddie.....	Jan. 1-31.....	1		
Fairfax.....	Jan. 1-Feb. 28.....	3		
Fauquier.....	do.....	42		
Frederick.....	Jan. 1-31.....	4		
Lee.....	Jan. 1-Feb. 28.....	270		
Loudoun.....	do.....	7		
Lunenburg.....	Jan. 1-31.....			
Nansemond.....	do.....	4		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Virginia—Continued.</b>				
<b>Counties—Continued.</b>				
Prince William.....	Feb. 1-28.....	2		
Roanoke.....	Jan. 1-31.....	1		
Southampton.....	do.....	1		
Stafford.....	do.....	10		
Wise.....	do.....	7		
Total for State.....		372		
<b>Washington:</b>				
<b>Counties—</b>				
Chehalis.....	Mar. 1-31.....	3		
Chelan.....	Jan. 1-Mar. 31.....	2		
Clallam.....	Jan. 1-Mar. 31.....	34		
Ferry.....	Jan. 1-31.....	1		
King.....	Dec. 1-Mar. 31.....	139	2	
Lewis.....	Mar. 1-31.....	2		
Lincoln.....	Feb. 1-Mar. 31.....	2		
Pacific.....	Jan. 1-31.....	1		
Pierce.....	Dec. 1-Mar. 31.....	49		
Skagit.....	Nov. 1-Mar. 31.....	111		
Snohomish.....	Dec. 1-Jan. 31.....	10		
Spokane.....	Nov. 1-Mar. 31.....	5		
Stevens.....	Dec. 1-Feb. 28.....	2		
Thurston.....	Mar. 1-31.....	1		
Walla Walla.....	Jan. 1-Mar. 31.....	2		
Whatcom.....	Jan. 1-Mar. 31.....	67		
Yakima.....	Jan. 1-Mar. 31.....	11		
Total for State.....		442	2	
<b>Wisconsin:</b>				
<b>Counties—</b>				
Ashland.....	Jan. 1-Feb. 28.....	6		
Barron.....	Jan. 1-Apr. 30.....	6		
Bayfield.....	Apr. 1-30.....	2		
Buffalo.....	Feb. 1-28.....	1		
Chippewa.....	Dec. 1-Mar. 31.....	12		
Clark.....	Apr. 1-30.....	1		
Dane.....	Jan. 1-Apr. 30.....	3		
Douglas.....	Feb. 1-Apr. 30.....	12		
Dunn.....	Dec. 1-Mar. 31.....	18		
Eau Claire.....	Feb. 1-28.....	4		
Green.....	Jan. 1-31.....	2		
Iowa.....	Dec. 1-Apr. 30.....	80		
Iron.....	Mar. 1-31.....	1		
Jefferson.....	Dec. 1-Jan. 31.....	10		
Lafayette.....	Dec. 1-Feb. 28.....	11		
La Crosse.....	Dec. 1-Apr. 30.....	13		
Lincoln.....	Feb. 1-Mar. 31.....	2		
Milwaukee.....	Dec. 1-Apr. 30.....	12		
Monroe.....	Mar. 1-Apr. 30.....	3		
Oneida.....	Dec. 1-Apr. 30.....	12		
Pierce.....	Feb. 1-28.....	1		
Price.....	Mar. 1-Apr. 30.....	3		
Rusk.....	do.....	5		
Sheboygan.....	Mar. 1-31.....	1		
St. Croix.....	Dec. 1-Feb. 28.....	7		
Vernon.....	Jan. 1-Feb. 28.....	10		
Vilas.....	Dec. 1-31.....	1		
Walworth.....	Jan. 1-31.....	1		
Washington.....	Dec. 1-31.....	1		
Total for State.....		241		
Grand total for the United States.....		14,262	52	

## MORBIDITY AND MORTALITY.

MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.  
FOR WEEK ENDED MAY 20, 1911.

Cities.	Popu- lation, United States census 1910.	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever.		Small- pox.		Tuber- culosis.		Ty- phoid fever.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having over 500,000 inhabitants.														
Baltimore, Md.	558,485	197	11	....	101	3	32	2	....	....	35	36	12	4
Boston, Mass.	670,585	231	48	1	169	1	35	3	....	....	69	20	6	....
Chicago, Ill.	2,185,283	710	138	15	335	5	258	13	9	....	256	87	33	2
Cleveland, Ohio.	560,663	....	23	1	72	....	113	6	....	....	9	21	5	1
New York, N. Y.	4,766,883	1,553	351	27	1,350	31	637	39	....	....	480	174	35	8
Philadelphia, Pa.	1,549,006	489	85	11	372	11	89	6	....	....	85	58	18	2
Pittsburg, Pa.	533,905	167	20	2	60	....	15	....	1	....	35	21	13	1
St. Louis, Mo.	687,029	218	48	6	172	2	106	8	7	....	31	27	5	1
Cities having from 300,000 to 500,000 inhabitants.														
Buffalo, N. Y.	423,715	159	13	2	30	....	20	....	2	....	35	14	5	1
Cincinnati, Ohio.	364,463	....	8	2	20	....	83	....	16	....	42	29	1	....
Detroit, Mich.	465,766	157	12	....	....	....	29	....	....	....	....	....	....	....
Los Angeles, Cal.	319,198	....	3	....	19	....	8	....	3	....	15	24	4	....
Milwaukee, Wis.	373,857	107	13	3	37	....	37	3	1	....	16	6	9	1
Newark, N. J.	347,469	94	20	2	....	....	38	....	....	....	22	12	1	....
New Orleans, La.	339,075	157	3	....	89	4	4	....	3	....	28	12	5	2
San Francisco, Cal.	416,912	118	4	....	52	1	18	1	....	....	23	13	4	....
Washington, D. C.	331,069	119	7	....	470	1	6	....	2	....	25	5	8	5
Cities having from 200,000 to 300,000 inhabitants.														
Denver, Colo.	213,381	62	7	....	33	1	8	....	22	....	....	10	2	....
Indianapolis, Ind.	233,650	55	9	....	62	....	39	....	2	....	11	6	5	1
Jersey City, N. Y.	267,779	72	....	....	....	....	....	....	....	....	....	13	....	....
Kansas City, Mo.	248,381	97	8	1	4	....	5	2	26	....	....	9	....	2
Providence, R. I.	224,326	91	11	....	4	1	14	1	....	....	12	13	2	....
Seattle, Wash.	237,194	38	1	....	97	....	4	....	13	....	4	6	....	....
Cities having from 100,000 to 200,000 inhabitants.														
Bridgeport, Conn.	102,054	32	4	....	23	2	3	....	....	....	....	1	....	....
Cambridge, Mass.	104,839	36	3	....	18	....	5	1	....	....	1	4	....	....
Columbus, Ohio.	181,548	68	4	1	64	1	....	....	1	....	2	....	2	....
Dayton, Ohio.	116,577	28	2	....	7	....	3	....	....	....	1	4	....	....
Fall River, Mass.	119,295	48	3	....	18	4	11	....	....	....	9	2	....	....
Grand Rapids, Mich.	112,571	28	....	....	9	....	8	....	....	....	1	2	2	....
Lowell, Mass.	106,284	29	1	....	6	....	2	....	....	....	1	3	1	....
Memphis, Tenn.	131,105	....	5	....	9	....	....	....	3	....	4	6	....	....
Nashville, Tenn.	110,364	63	....	....	1	....	3	....	....	....	5	2	5	3
Oakland, Cal.	150,174	38	2	....	15	1	1	....	....	....	2	....	....	1
Omaha, Nebr.	124,066	....	1	1	3	....	2	....	7	....	....	....	....	....
Richmond, Va.	127,628	52	3	....	31	....	....	1	....	2	5	2	....	....
Spokane, Wash.	104,402	27	3	....	35	....	6	....	1	....	2	....	....	....
Toledo, Ohio.	168,497	45	1	....	3	....	5	....	....	....	2	1	....	....
Worcester, Mass.	145,986	43	9	1	13	1	16	....	....	....	15	3	2	....
Cities having from 50,000 to 100,000 inhabitants.														
Altoona, Pa.	52,127	12	....	....	....	....	1	....	....	....	1	1	....	....
Bayonne, N. J.	55,545	15	....	....	....	....	....	....	....	....	....	1	....	....
Brockton, Mass.	56,878	11	1	....	28	....	3	....	....	....	4	....	....	....
Camden, N. J.	94,538	....	8	....	2	....	1	....	....	....	2	....	1	....
Canton, Ohio.	50,217	6	1	....	....	....	1	....	....	....	....	1	....	....
Covington, Ky.	53,270	14	....	1	....	....	3	....	....	....	2	1	....	....
Duluth, Minn.	78,466	30	2	....	37	....	8	....	....	....	3	3	....	....
Elizabeth, N. J.	73,409	20	2	....	3	....	12	....	....	....	....	....	....	....
Evansville, Ind.	69,647	15	....	....	49	2	1	....	4	....	5	2	1	....
Fort Wayne, Ind.	63,933	17	1	....	10	....	6	....	....	....	1	3	....	1
Harrisburg, Pa.	64,186	24	6	....	4	....	2	....	....	....	13	3	....	....
Hartford, Conn.	98,915	24	....	....	9	....	1	....	....	....	2	1	....	1

## MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States, for week ended  
May 20, 1911—Continued.

Cities.	Popula- tion, United States census 1910.	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever.		Small- pox.		Tuber- culosis.		Ty- phoid fever.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having from 50,000 to 100,000 inhabitants—Continued.														
Hoboken, N. J.	70,324		2	1	14						1			
Houston, Tex.	78,800	31	1									4		
Jacksonville, Fla.	57,699	20					8		14			3	1	1
Johnstown, Pa.	55,482	17			42	1	4	2				1	1	
Kansas City, Kans.	82,331	21	2		12		2		5		1	2	1	
Lawrence, Mass.	85,892	24			12	5	9				3	2		
Lynn, Mass.	89,336	20	6		7		4				4	3		
New Bedford, Mass.	96,652	29	1		1		2				3	3	4	1
Oklahoma City, Okla.	64,205	29			7		6				2	1	1	1
Passaic, N. J.	54,773	15			14		1				2	1		
Peoria, Ill.	66,950	22					8					4		
Reading, Pa.	96,071	30	1		4		8	1			2	2	3	1
Salt Lake City, Utah.	92,777	23	6	1	20		1		2			1	1	1
San Antonio, Tex.	96,614	49			6	2						10	2	1
Schenectady, N. Y.	72,826	20					6				3	1	1	1
Somerville, Mass.	77,236						6				1	1		
South Bend, Ind.	53,684	15	1	1	8	2	5	1	1			2		
Springfield, Ill.	51,678	24	3	1			4				1	1		
Springfield, Mass.	88,926	30	2		15		6				2	5	1	
Tacoma, Wash.	83,743	21			1		4							
Trenton, N. J.	96,815	51	2				5				4	5	8	2
Utica, N. Y.	74,419	26	1		10		5	1			2			
Wichita, Kans.	52,450	21										1		
Wilkes-Barre, Pa.	67,105	24	5		4		2				8	1	1	
Wilmington, Del.	87,411	30				1						5		1
Yonkers, N. Y.	79,803	17	4		32	1	23	1			2	3		
Cities having from 25,000 to 50,000 inhabitants.														
Atlantic City, N. J.	46,150	11	2	1	5		1							
Auburn, N. Y.	34,668	18					3	1						
Austin, Tex.	29,860	7			2	2					3	3		
Bay City, Mich.	45,166	7	2		1		4							
Binghamton, N. Y.	48,443	11		1	6						2	1		
Brookline, Mass.	27,792	8	1		7						1			
Butte, Mont.	39,165	14	1		1		1					6		
Chattanooga, Tenn.	44,604		1						1		3			
Chelsea, Mass.	32,452	16	2		14		4	2			1	2		
Chicopee, Mass.	25,401	7			2									
Danville, Ill.	27,871	6			5		1		7					
Dubuque, Iowa	38,494	5	2				4							
East Orange, N. J.	34,371	7	3		2		4				2			
Elmira, N. Y.	37,176	10	2		10						1	2		
Everett, Mass.	33,484	10	3		6		1				2			
Haverhill, Mass.	44,115						4				3		3	
Kalamazoo, Mich.	39,437	14	3		4		1							
Knoxville, Tenn.	36,346	18							6			2		
La Crosse, Wis.	30,417	9					3				3	1		
Lancaster, Pa.	47,227	13	3		5		2	1			1			
Lexington, Ky.	35,099	9			11		1					1		
Lima, Ohio.	30,508	4					1							
Lynchburg, Va.	29,494				21								2	
Malden, Mass.	44,404	14			25						2	1	1	
McKeesport, Pa.	42,694	9	1				2				1	2		
Meriden, Conn.	27,265		1		14		1				1			
Montgomery, Ala.	38,136	21									3			
Mount Vernon, N. Y.	30,919		2	1	1		5				2			
New Britain, Conn.	43,916	15		1	5		1				3			
Newcastle, Pa.	36,280		2		3								4	
Newport, Ky.	30,309	8	2				4							
Newton, Mass.	39,806	10			9		1				1			
Niagara Falls, N. Y.	30,445	12	3									2	4	2
Norristown, Pa.	27,875	9	2		9						1			
Orange, N. J.	29,630	8	1		1		7						1	
Pasadena, Cal.	30,291	11			2							3		1
Pittsfield, Mass.	32,121	13			1						2		1	

## MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States, for week ended  
May 20, 1911—Continued.

Cities.	Popula- tion, United States census 1910.	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever.		Small- pox.		Tuber- culosis.		Ty- phoid fever.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having from 25,000 to 59,009 inhabitants—Continued.														
Portsmouth, Va.	33,190	14	1		6		3	1						
Poughkeepsie, N. Y.	27,936	12			31		2				1	1		
Racine, Wis.	38,002	14	1				3	1				1	1	
Roanoke, Va.	34,874	10					6		1		1	2		
Sacramento, Cal.	44,696	16	1		1		1					3	2	
San Diego, Cal.	39,578	22	1								1	1		
San Jose, Cal.	28,946	3												
South Omaha, Nebr.	26,269	9			3		2		3					
Superior, Wis.	40,384	6	5											
Taunton, Mass.	34,269	8	1		1						1	1	1	
Waltham, Mass.	27,834	3	1		3								1	
West Hoboken, N. J.	35,403	9	2		5		2					1		
Zanesville, Ohio	28,026	13										1	14	2
Cities having less than 25,000 inhabitants.														
Ann Arbor, Mich.	14,817	9	1		1				1		4	1		
Beaver Falls, Pa.	12,191				1									
Braddock, Pa.	19,357	7	1		14									
Butler, Pa.	20,728	2												
Cambridge, Ohio.	11,327	3										2		
Camden, S. C.		1											1	
Carbondale, Pa.	17,040	7					5							
Clinton, Mass.	13,075	2										1		
Coffeyville, Kans.	12,687	5	1				2				1		2	
Columbus, Ga.		8			1							1		
Columbus, Ind.		5					1					2		
Concord, N. H.	21,497	7					1					1		
Cumberland, Md.	21,839	15	1									1	2	1
Dunkirk, N. Y.		4	1				1				1	1	2	
Elyria, Ohio.	15,000	4					1							
Galesburg, Ill.	20,089	10	1											
Gloucester, Mass.	24,398	8												
Greensboro, N. C.	15,895	5										1		
Harrison, N. J.	14,498	4	1											
Homestead, Pa.	18,713	5			28						1			
Hyde Park, Mass.	15,507	3												
Kearny, N. J.	18,659	4			1		1				1	1		
Kokomo, Ind.	17,012	3	1		2				9					
La Fayette, Ind.	12,081	5					2					1		
Lebanon, Pa.	19,240	6			1									
Manistee, Mich.	12,381						2							
Marinette, Wis.	14,610	6												
Marlboro, Mass.	14,579	7			1							1		
Massillon, Ohio.	13,879	2	1		1		2							
Medford, Mass.	23,150	6			10		3				1			
Melrose, Mass.	15,715	5	1		5		2					2		
Moline, Ill.	24,199	6	1		8	1	5					1		
Montclair, N. J.	21,550	5	2		3		1							1
Nanticoke, Pa.	18,877	6												
Newburyport, Mass.	14,949	2												
North Adams, Mass.	22,019	7					1							
Northampton, Mass.	19,431	3			1		2				1			
Palmer, Mass.		1												
Palo Alto, Cal.	4,486	1			1									
Peekskill, N. Y.		7	1		20	1	1							
Plainfield, N. J.	20,550	1	1		3		2				4			
Pottstown, Pa.		3					1							
Rutland, Vt.	13,546	5			3									
Sandusky, Ohio.		9					1					1		
Saratoga Springs, N. Y.		4									6			
South Bethlehem, Pa.	19,973	6			3		1				1		1	1
Steelton, Pa.	14,246	2	1				1				7			
Warren, Pa.	11,080				1									
Wilkinsburg, Pa.	18,294	4			1		3				1			
Woburn, Mass.	15,308	4									1			

**STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES  
AND CITIES OF THE UNITED STATES (untabulated).**

CONNECTICUT—*Stamford*.—Month of May, 1911. Population, 25,138. Total number of deaths from all causes, 20. No deaths from contagious diseases. Cases reported: Measles 4, scarlet fever 3, typhoid fever 1.

FLORIDA.—Week ended May 20, 1911. Reports from the State board of health show diphtheria present in 1 locality (Jacksonville) with 2 cases, malaria in 4 localities with 30 cases, smallpox in 5 counties with 29 cases, tuberculosis in 4 localities with 18 cases, typhoid fever in 2 localities (Lakeland and Tampa) with 7 cases.

MINNESOTA.—Month of February, 1911. Population, 2,075,708. Total number of deaths from all causes, 1,825, including diphtheria 31, measles 6, scarlet fever 24, tuberculosis 203, typhoid fever 16.

UTAH.—Month of April, 1911. Population, 373,351. Total number of deaths from all causes, 267, including diphtheria 10, measles 3, scarlet fever 3, smallpox 2, tuberculosis 13, typhoid fever 2. Cases reported: Diphtheria 43, measles 818, scarlet fever 181, smallpox 260, tuberculosis 5 (incomplete), typhoid fever 12.



# FOREIGN AND INSULAR.

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## AUSTRIA-HUNGARY.

### TRIESTE—Cholera on Steamship.

The American vice consul reports by telegram the occurrence of a fatal case of cholera on the steamship *Saxonia*. The *Saxonia* arrived at Trieste June 5 from New York via Genoa and Naples. The vessel was placed in quarantine.

## BARBADOS.

### Yellow Fever.

The Department of State is in receipt of a cablegram, dated June 7, from Bridgetown, Barbados, reporting one case of yellow fever.

## BRAZIL.

### PARA—Plague.

The Department of State is in receipt of a telegram dated June 7, reporting a case of plague.

## BRITISH EAST AFRICA.

### Plague at Nairobi.

The American consul at Zanzibar reported May 26 the presence of plague at Nairobi, British East Africa.

## BRITISH GOLD COAST.

### Yellow Fever at Accra.

The American consul at Sierra Leone reported May 26 the presence of yellow fever at Accra, British Gold Coast.

## GAMBIA.

### Yellow Fever at Bathurst.

The American consul at Sierra Leone reported May 26 the presence of yellow fever at Bathurst, colony of Gambia.

## HAWAII.

### Removal of Quarantine on Account of Cholera.

Outgoing quarantine on account of cholera was removed at Honolulu May 15. The last case of cholera occurred April 25.

### Record of Plague Infection.

Last case of human plague at Honolulu occurred July 12, 1910.

The last plague-infected rat was found at Aiea, 9 miles from Honolulu, April 12, 1910.

At Hilo the last case of human plague occurred March 23, 1910. A fatal case occurred at Honokaa, 60 miles from Hilo, December 17, 1910; 2 fatal cases were reported January 31, 1911, and 1 fatal case was reported April 19.

The last plague-infected rat was found at Honokaa February 2, 1911.

## Chief Quarantine Officer Ramus reports May 15:

*Week ended May 13, 1911.*

Total rats and mongoose taken.....	963
Rats trapped.....	950
Mongoose trapped.....	13
Examined bacteriologically.....	816
Classification of rats trapped:	
<i>Mus alexandrinus</i> .....	51
<i>Mus musculus</i> .....	387
<i>Mus norvegicus</i> .....	76
<i>Mus rattus</i> .....	436

**INDIA.****Status of Plague.**

Consul Olivares at Madras reports May 4:

During the week ended April 27 a total of 45,277 cases of plague with 39,241 deaths was reported for all India. The greatest mortality was reported as follows: United Provinces 19,114, Punjab district 14,391, Bengal Presidency 3,205, Bombay Presidency 1,517.

In the Madras Presidency the mortality for the week referred to was comparatively light, the number of deaths being reported as 37.

During the month of April plague mortality at the city of Delhi equaled the number of cases, being reported as follows: April 1-8, 50 cases, with 50 deaths; April 8-15, 70 cases, with 70 deaths; April 15-22, 80 cases, with 80 deaths; April 22-29, 41 cases, with 41 deaths. (Population of Delhi, 208,385.)

**CALCUTTA—Cholera, Plague, and Smallpox.**

Acting Asst. Surg. Allan reports May 4:

During the week ended April 15 there were reported at Calcutta 77 deaths from cholera, 163 from plague, and 4 from smallpox; in all Bengal, 3,821 cases of plague, with 3,283 deaths; in all India, 42,362 cases of plague, with 37,348 deaths.

**ITALY.****NAPLES—Smallpox.**

Passed Asst. Surg. King reports May 15:

During the week ended May 13 there were reported at the health office of the city of Naples 20 cases of smallpox, with 4 deaths.

**JAVA.****Cholera and Plague.**

Consul Rairden at Batavia reports April 24:

Cholera is increasing in Batavia. During the week ended April 22 there were reported 15 cases, with 10 deaths. Three of the cases reported occurred among Europeans.

There has been a slight increase in plague in the Pasoeraoean Residency (Malang). The disease has not spread beyond the district.

**MEXICO.****FRONTERA—Yellow Fever.**

The American consul reports one case of yellow fever. The infection was contracted at Laguna.

**TURKEY IN ASIA.****Cholera at Samsun.**

The American consul at Trebizond reports May 26 the presence of cholera at Samsun.

Samsun is a port on the Black Sea and is situated in the vilayet of Trebizond.

**ZANZIBAR.****ZANZIBAR—Smallpox—Examination of Rats.**

Consul Weddell reports:

During the two weeks ended April 23 there was reported one case of smallpox. The total number of cases from the date of the outbreak, June 8, 1910, to April 23, 1911, was 268, with 145 deaths. The total number of persons vaccinated during the same period was 40,653.

During the two weeks ended April 21 there were examined for plague infection 1,591 rats. No plague-infected rats were found.

**CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.****Reports Received During Week Ended June 9, 1911.**

[These tables include cases and deaths recorded in reports received by the Surgeon General, Public Health and Marine-Hospital Service, from American consuls, through the Department of State, and from other sources.]

**CHOLERA.**

Places.	Date.	Cases.	Deaths.	Remarks.
Austria-Hungary:				
Trieste .....	June 5 .....	1	1	On s. s. Saxonia, from New York via Genoa and Naples.
India:				
Calcutta .....	Apr. 9-23 .....		157	Madras Presidency, <sup>1</sup> Mar. 1-15: Cases 1,450, deaths 876. Apr. 1-30: Cases 2,523, deaths 1,503. Report Mar. 1-15 not received.
Madras .....	Apr. 16-29 .....	4	1	
Rangoon .....	do .....	64	44	
Java:				
Batavia .....	Apr. 16-22 .....	15	10	
Pasoeroean Residency .....	do .....	30	15	
Indo-China:				
Saigon .....	Apr. 3-9 .....	21	10	
Russia:				
Minsk government .....	Apr. 21-29 .....	24	1	
Voronesch government .....	May 8 .....	1	1	
Straits Settlements:				
Singapore .....	Apr. 9-15 .....	1	1	
Turkey in Asia:				
Samsun .....	May 31 .....			Present.

**YELLOW FEVER.**

Places.	Date.	Cases.	Deaths.	Remarks.
Barbados:				
Bridgetown .....	June 7 .....	1		
Brazil:				
Marcos .....	May 7-13 .....		2	
Para .....	May 14-20 .....	1	1	
British Gold Coast:				
Accra .....	May 29 .....			Present.
Gambia:				
Bathurst .....	Mar. 29 .....			Do.
Mexico:				
Fronteras .....	June 7 .....	1		From Laguna.

<sup>1</sup> Bulletin Quarantenaire d'Egypte, May 4, 1911.

<sup>2</sup> From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, May 17, 1911.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received During Week Ended June 9, 1911.

## PLAGUE.

Places.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Maskat.....	Apr. 23-May 6....	28	26	
Brazil:				
Para.....	May 14-20.....	7	3	June 7, present.
Chile:				
Pisagua.....	Feb. 7-Apr. 7....	9	7	
China:				
Hongkong.....	Apr. 24-26.....	5	.....	
Egypt:				
Alexandria.....	Apr. 29-May 11...	1	.....	
India:				
Bombay.....	Apr. 23-29.....	315	279	
Calcutta.....	Apr. 9-22.....	.....	336	
Kurrachee.....	Apr. 23-29.....	328	309	
Rangoon.....	Apr. 16-29.....	104	99	
Indo-China:				
Saigon.....	Apr. 3-9.....	3	1	
Mauritius.....	Mar. 3-30.....	4	2	
Persia:				
Buchir.....	Apr. 23-29.....	6	5	

## SMALLPOX.

Argentina:				
Rosario.....	Mar. 1-31.....	.....	15	
Austria-Hungary:				
Galicia.....	Apr. 30-May 6.....	1	.....	
Krain.....	Apr. 30-May 6.....	2	.....	
Canada:				
Cornwall.....	May 19-25.....	1	.....	
Fort William.....	May 16-29.....	3	.....	
Newcastle.....	May 21-27.....	1	.....	
Ottawa.....	May 14-27.....	7	.....	
Paspiebiac.....	May 21-27.....	1	.....	
Quebec.....	do.....	1	.....	
Vancouver.....	do.....	5	.....	
China:				
Hongkong.....	Apr. 15-22.....	6	5	
Shanghai.....	Apr. 17-30.....	1	6	Deaths among natives.
Ceylon:				
Colombo.....	Apr. 16-22.....	1	.....	
Egypt:				
Cairo.....	Apr. 23-29.....	1	.....	
Port Said.....	do.....	4	1	
Germany.....	May 7-20.....	18	.....	
Great Britain:				
Dundee.....	May 7-20.....	1	1	
London.....	May 7-13.....	13	.....	
India:				
Bombay.....	Apr. 23-29.....	35	23	
Calcutta.....	Apr. 9-22.....	.....	10	
Madras.....	Apr. 16-29.....	82	47	
Rangoon.....	do.....	202	84	
Indo-China:				
Saigon.....	Apr. 3-9.....	73	11	
Italy:				
Genoa.....	May 1-15.....	2	.....	
Naples.....	May 9-15.....	20	4	
Palermo.....	May 7-13.....	8	5	
Mexico:				
Ensenada.....	May 14-20.....	3	.....	
Nogales.....	May 21-27.....	3	.....	
Salina Cruz.....	May 14-20.....	1	.....	
Tampico.....	do.....	6	.....	
Portugal:				
Lisbon.....	May 7-13.....	16	.....	
Russia:				
Moscow.....	May 1-6.....	30	11	
Riga.....	Apr. 30-May 6.....	13	.....	
St. Petersburg.....	Apr. 23-May 6.....	42	11	
Warsaw.....	May 12-18.....	2	1	
South Africa:				
Johannesburg.....	Apr. 17-29.....	3	.....	
Spain:				
Valencia.....	May 7-13.....	7	.....	
Straits Settlements:				
Singapore.....	Apr. 9-15.....	3	2	
Turkey:				
Constantinople.....	May 8-14.....	.....	1	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received from Dec. 31, 1910, to June 2, 1911.

[For reports received from June 25, 1910, to Dec. 30, 1910, see PUBLIC HEALTH REPORTS for Dec. 30, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

## CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Arabia:</b>				
Bajil.....	Jan. 18-Feb. 12....	49	41	
Hodeida.....	Jan. 23-Feb. 12....	188	133	Apr. 18, present among troops.
Jebel Akhdar.....	Apr. 1-18.....			Present in remote villages.
Perim.....	Jan. 23.....			Present.
Maskat.....	Nov. 30-30.....	7	7	
Menaka.....	Jan. 19-Feb. 12....	97	24	
Obal.....	Jan. 27-Feb. 12....	3	3	
Zaida.....	do.....	27	15	
<b>Austria-Hungary.</b>	Aug. 3-Nov. 7.....			Not previously reported.
Croatia and Slavonia.	Dec. 4-17.....	5	2	
Maren.....	Oct. 1-9.....	3		
Hungary.....	Nov. 27-Dec. 17....	9	3	
<b>Bulgaria:</b>				
Tartar-Pazardjik.....	Jan. 10.....	2	2	
Varna.....	Nov. 29.....	2		From steamship <i>Bulgarie</i> , 3 fatal cases having been reported on p. 1936, Vol. XXV.
<b>Ceylon:</b>				
Colombo.....	Dec. 11-24.....	4	3	
<b>China:</b>				
Amoy.....	May 9.....			Present.
Newchwang.....	Aug. 1-Nov. 22.....			Occasional cases.
Shanghai.....	Aug. 1-31.....		1	Reported out of date.
<b>Hawaii:</b>				
Honolulu.....	Feb. 25-Apr. 25....	39	29	Total from Feb. 25-Mar. 14: Cases 31; deaths, 22. Apr. 12-25: Cases, 8; deaths, 7.
<b>India:</b>				
Bassein.....	Mar. 5-Apr. 1.....	4	4	
Bombay.....	Nov. 23-Mar. 18....		109	Feb. 19-Apr. 22: Cases, 5.
Calcutta.....	Nov. 13-Apr. 18....		766	
Madras.....	Nov. 27-Mar. 25....		16	Madras Presidency, Oct. 1-Dec. 31: Cases, 8,382; deaths, 4,546. Report for Oct. 16-31 not received. Jan. 1-Feb. 28: Cases 11,228; deaths, 6,259.
Moulmine.....	Mar. 5-Apr. 1.....	20	17	
Rangoon.....	Jan. 1-Apr. 15....	24	21	
<b>Indo-China:</b>				
Saigon.....	Dec. 12-Apr. 16....	54	28	
<b>Italy.....</b>				Total for Italy, Dec. 27-Jan. 30: Cases, 111; deaths, 17.
<b>Provinces—</b>				
Aquila.....	Dec. 4-17.....	4	1	
Bari.....	Dec. 27-Jan. 30....	5	2	
Caltanissetta.....	Dec. 4-10.....	1		
Caserta.....	Dec. 4-Jan. 14....	15	3	
Catanzaro.....	Dec. 27-Jan. 6.....	2	2	
Lecce.....	Dec. 11-Jan. 30....	111	13	
<b>Palermo—</b>				
Palermo.....	Dec. 4-10.....	16	6	
Insane asylum.....	Dec. 4-Jan. 6.....	24	6	
Rome.....	do.....	10	7	
Salerno.....	Dec. 11-Jan. 6.....	10		
<b>Japan.....</b>				Total for Japan, Sept. 14-Nov. 3: Cases, 2,770; deaths, 1,923, including cases and deaths appearing on p. 1937, Vol. XXV.
Aichi ken.....	Oct. 16-Nov. 20....	3	3	
Ehime ken.....	Sept. 23-Nov. 30....	27	19	
Formosa.....	Nov. 20-Dec. 17....	11	6	Mainly in Kelung and Taihoku.
Fukuoka ken.....	Sept. 30-Nov. 30....	234	165	
Higo ken, Kobe.....	Sept. 12-Nov. 30....	607	396	
Hiroshima ken.....	Sept. 25-Nov. 30....	58	30	
Kagawa ken.....	Oct. 2-Nov. 30.....	293	201	
Kagoshima ken.....	Oct. 28-Nov. 30....	4	3	
Kochi ken.....	Oct. 18-Nov. 30....	70	42	
Kyoto fu.....	Sept. 30-Nov. 30....	143	119	
Kumamoto ken.....	Oct. 18-Nov. 30....	19	11	
Miye ken.....	Oct. 11-Nov. 30....	8	5	
Nagasaki ken.....	Oct. 16-Nov. 30....	26	11	Dec. 12-25, 5 cases, 1 death.
Nara ken.....	Oct. 3-Nov. 30.....	31	23	
Oita ken.....	Oct. 10-Nov. 30....	2	1	
Okayama ken.....	Sept. 29-Nov. 30....	71	49	
Osaka fu.....	Sept. 17-Nov. 30....	951	692	
Saga ken.....	Oct. 4-Nov. 30.....	51	31	
Shiga ken.....	Nov. 20-30.....	7	6	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Japan—Continued.				
Shimane ken.....	Oct. 24-Nov. 30....	7	5	
Tokush ma ken.....	Oct. 3-Nov. 30....	59	37	
Tokyo fu.....	Oct. 18-Nov. 30....	1	1	
Wakayama ken.....	Oct. 6-Nov. 30....	57	44	
Yamaguchi ken.....	Oct. 12-Nov. 30....	41	29	
Java.....				Bali, Praja, Feb. 1-28: Cases, 294; deaths, 174. Lombok, Djougat: Cases, 284; deaths, 201. Celebes, Apr. 13-May 4. Present.
Batavia.....	Nov. 13-Apr. 15....	31	15	
Samarang.....	Sept. 11-Feb. 10....	620	534	
Soerabaya.....	Oct. 23-Mar. 4....	26	15	
Korea:				
Seoul.....	Oct. 26-Nov. 5....	1	1	
Madeira.....				Total for Madeira, Nov. 16-Feb 8: Cases, 1,774; deaths, 555, in cluding report, page 1933 Vol. XXV.
Funchal.....	Nov. 16-Feb. 8....	635	210	
Calheta.....	Dec. 9-31.....	1	1	
Camara dos Lobos.....	Nov. 16-Feb. 8....	513	160	
Machico.....	do.....	278	75	
Ponte do Sol.....	do.....	195	71	
Santa Cruz.....	do.....	89	26	
Porto Santo Island.....	Nov. 10-Feb. 8....		13	
Persia:				
Ardestan.....	Nov. 30.....			Present.
Assadabad.....	Oct. 5-Nov. 8....		61	
Birjend.....	Nov. 10.....			Do.
Chalfaroud.....	Jan. 3.....			Do.
Enzell.....	Nov. 8-25.....	9	11	Present in vicinity and in Pire-Bazar.
Hamadan.....	Oct. 6-Dec. 3....	42	22	
Kashan.....	Nov. 30.....			Present.
Kasri-Churine.....	Oct. 13-20.....		5	
Kerman.....	Nov. 22-Dec. 24....	106	51	
Kermanchah.....	Nov. 5-10.....		6	
Mohammerah.....	Nov. 13-Dec. 5....	11	3	
Mollag-Ali.....	Nov. 20.....	6		
Resht.....	Nov. 19-Dec. 3....	48	42	Present in all villages in vicinity.
Turbat-i-Hibari.....	Oct. 10-Nov. 15....	66	25	
Philippine Islands:				
Manila.....	Nov. 6-Dec. 31....	9	6	Third quarter, 1910: Cases, 195; deaths, 141.
Provinces.....				Third quarter, 1910: Cases, 5,657; deaths, 4,069.
Albay.....	Dec. 24-Mar. 11....	59	47	
Bulacan.....	Nov. 6-Feb. 4....	18	15	
Iloos Sur.....	Nov. 6-Dec. 17....	58	38	
Mindoro.....	Nov. 6-Feb. 25....	37	27	
Rizal.....	Nov. 6-Feb. 18....	41	32	
Union.....	Nov. 6-12.....	3	1	
Russia.....				Total for Russia, Nov. 20-Feb. 4: Cases, 1,230; deaths, 303. From May 8-Feb. 4: Cases, 216,796; deaths, 100,982. Apr. 28-May 3, 2 cases in the southern part.
Baku government—				
Baku.....	Nov. 6-Dec. 17....	6	2	
Batum.....	Dec. 4-10.....	2	1	
Don territory.....	Nov. 6-19.....	6	2	
Eriivan government.....	Nov. 6-Dec. 10....	4	4	
Ferghana territory.....	Nov. 6-19.....	6	6	
Kharkov government.....	Nov. 6-12.....	2		
Kazan government.....	Nov. 6-Jan. 7....	2	1	
Kherson government.....	Nov. 6-Dec. 3....	4	4	
Kief government.....	Nov. 6-Feb. 4....	45	18	
Kuban territory.....	Nov. 6-13.....	4	4	
Lublin government.....	Nov. 20-26.....	31	13	
Mohilev government.....	Nov. 6-19.....	2	1	
Orenburg government.....	Nov. 13-24.....	15	6	
Oufa government.....	Nov. 6-12.....	2	1	
Perm government.....	Nov. 20-26.....	1		
Podolia government.....	Nov. 13-Jan. 28....	11	4	
Rjasan government.....	Nov. 6-12.....	2		
St. Petersburg government.....	do.....	2		
St. Petersburg.....	Nov. 6-Dec. 31....	32	16	
Samara government.....	Nov. 6-19.....	6		
Saratov government.....	Nov. 13-26.....	8	6	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Siberia, eastern.....	Nov. 16-19.....	12	3	Vladivostok, Oct. 29-Nov. 13: Cases, 4; deaths, 17. See p. 1939, Vol. XXV.
Syr Darya territory.....	.....do.....	7	4	
Taurida government—				
Sebastopol.....	Nov. 13-Dec. 3....	7	4	
Tambov government.....	Nov. 13-Dec. 10....	86	34	
Tiflis government.....	Nov. 6-28.....	2	2	
Vitebsk government.....	Nov. 6-19.....	3	2	
Veronesch government.....	Nov. 6-12.....	2	2	
Yekaterinoslav government	Nov. 6-Jan. 14.....	65	34	
Siam:				
Bangkok.....	Nov. 6-Mar. 18....	753	743	
Straits Settlements:				
Singapore.....	Dec. 25-Apr. 8....	4	3	
Sumatra.....				Mar. 7, present in Soembawa
				Batangkapas, Taloe, and Tim-
				belon. Mar. 25, present at
				Solok.
				Present.
				Do.
				Do.
				Do.
Tripoli:				
Amrousse.....	Sept. 20-Dec. 8....	6	5	
Hani.....	.....do.....	3	2	
Tripoli.....	Nov. 15-Dec. 8....	37	37	Total Sept. 20-Dec. 8: Cases, 323; deaths, 233.
Turkey:				
Adrianople Vilayet.....	Nov. 21-Dec. 15....	60	60	94 cases and 34 deaths reported, p. 1940, Vol. XXV.
Constantinople.....	Nov. 22-Jan. 16....	841	529	Total from Sept. 13-Jan. 16: Cases, 1,318; deaths, 793.
Saloniki Vilayet.....	Dec. 11-31.....	50	25	
Turkey in Asia:				
Bagdad Vilayet.....	Nov. 20-Dec. 11....	119	115	Total Oct. 16-Jan. 16: Cases, 819; deaths, 723.
Basra.....	Nov. 6-26.....	10	9	
Medina.....	Jan. 22-Feb. 28....	667	667	
Mekka.....	Dec. 26-Jan. 28....	153	142	Feb. 5, present.
Samsoun.....	Nov. 20-Dec. 3....	6	6	
Smyrna.....	Nov. 20-Apr. 27....	332	200	
Trebizond.....	Nov. 20-Dec. 18....	107	42	And vicinity.
Yambo.....	Jan. 7-Feb. 13....	37	37	
Zongouldak.....	Nov. 20-Dec. 16....	9	6	

## YELLOW FEVER.

Barbados.....	May 8.....	1	1	
Brazil:				
Bahia.....	Apr. 16-Apr. 26....	14	14	
Manaos.....	Dec. 4-Apr. 15....	189	84	Mar. 12, 1 case from the British s. s. Cearense.
Para.....	Nov. 27-May 20....	188	84	
Pernambuco.....	Mar. 1-15.....	1	1	
Rio de Janeiro.....	Feb. 21-Mar. 11....	1	1	
Dominican Republic:				
Santiago de los Caballeros..	.....	.....	.....	Sept., 1910, present.
Ecuador:				
Guayaquil.....	Nov. 1-Apr. 30....	169	69	Including 14 cases with 3 deaths, in April, on a coaling vessel at dock.
Milagro.....	Apr. 1-30.....	3	2	
Naranjito.....	Mar. 1-Apr. 15....	4	1	
San Antonio, hacienda.....	Mar. 1-31.....	1	1	
Honduras:				
Puerto Cortez.....	Jan. 21-29.....	.....	.....	1 fatal case on U. S. S. Marietta.
Mexico:				
Salina Cruz.....	Mar. 4.....	1	1	From s. s. Opland from Guatemalan ports.
Portuguese Guinea.....	May 24.....	.....	.....	Present.
Venezuela:				
Caracas.....	Dec. 4-Feb. 28....	57	16	Nov. 22-Dec. 3, 5 deaths.
La Guaira.....	Dec. 1-15.....	1	1	Jan. 22-27, 1 fatal case in Canton suburb.
Macuto.....	Dec. 1-7.....	1	.....	
Malquetia.....	Nov. 29.....	1	.....	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Maskat.....	Mar. 26-Apr. 22...	40	20	
Azores:				
Terceira.....	Dec. 24.....			Present.
Brazil:				
Bahia.....	Oct. 29-Apr. 15....	65	53	
Para.....	Apr. 2-May 20.....	10	6	
Pernambuco.....	July 1-Apr. 15.....		16	
Rio de Janeiro.....	Jan. 1-31.....	12	9	Nov. 1-Dec. 31: Cases 19, deaths 5.
Sao Paulo.....	Jan. 8-Feb. 25.....	3	3	
British East Africa.				
Kismayu.....	May 19.....			Present.
British Egyptian Soudan:				
Suakin.....	Apr. 20-23.....	1		On s. s. Sultana.
Chile:				
Arica.....	Jan. 26-Feb. 5.....	5	1	Dec. 28-Apr. 17, present.
Iquique.....	Jan. 1-28.....	5	3	Mar. 2-19: Cases 11, deaths 2.
China:				
Amoy.....	Jan. 21-Mar. 18....	11	11	Apr. 16-22: 4 deaths daily; Jan. 21-Feb. 27, present in Amoy Island and Mar. 26-Apr. 8, 15 deaths. Three of these cases were of the pneumonic form.
Kulangsu.....	Jan. 1-21.....	3	3	
Changtu.....	Jan. 14.....			Present.
Paoting-fu.....	Jan. 24.....			Do.
Peking.....	do.....	2		
Shantung Province.				Total, Jan. 12-Apr. 13: Deaths 3,060.
Chefoo.....	Jan. 15-Apr. 15....		1,100	
Chinchowfu.....	Mar. 12-18.....		36	
Laichow.....	Apr. 15.....		300	
Pingtau.....	Mar. 12-18.....			Present.
Tengchowfu.....	Feb. 4.....		30	
Sioke.....	Dec. 6-Jan. 4.....			Present in the interior 60 miles from Amoy.
Swatow.....	Jan. 28-Apr. 29.....			Present in vicinity.
Tientsin.....	Jan. 21-Mar. 18.....		27	Jan. 17-Feb. 20, 60 cases.
Wangkochuang.....				Feb. 25, present.
Manchuria.....				Total for Manchuria, Oct. 25-Feb. 3: Cases, 1,176 Chinese, 40 Europeans; deaths, 1,164 Chinese, 37 Europeans. Total deaths to Mar. 29, 42,756.
Ah Cheng.....	To Mar. 9.....		1,451	
An Feng Line.....	Feb. 13.....		41	
Ashihe.....	Dec. 25-Jan. 13....	2		Feb. 10: Deaths, 300 daily.
Buhedu.....	Oct. 30.....	3	3	
Changchun.....	Jan. 1-Mar. 27.....		2,695	
Chang Tu.....	To Mar. 9.....		428	
Chen An.....	Mar. 7.....		88	
Cheng Te.....	Mar. 10.....		672	
Ching Chow.....	To Mar. 2.....		36	
Ching Hsi.....	Mar. 4.....		19	
Dalny.....	Jan. 11-Feb. 8.....	66	60	
Dunzenshan.....	To Dec. 25-Feb. 3..		22	
Fa Ku.....	To Mar. 3.....		217	
Feng Hua.....	To Feb. 13.....		149	
Fenting Province.	To Mar. 29.....		7,137	
Fuchiatien.....				Nov. 8-Mar. 18: Deaths 5,149.
Fushun.....	To Mar. 9.....		66	
Hallar.....	Dec. 6-Feb. 5.....		86	
Harbin.....				And vicinity, Nov. 8-Mar. 18: Deaths, 1,554 Chinese; 54 Europeans.
Heilung.....	Feb. 27.....		8	
Heilungkiang.....	Jan. 7-Mar. 29.....		13,739	
Hismintun.....	To Mar. 7.....		328	
Hsi An.....	Feb. 28.....		111	
Hsi Feng.....	Mar. 4.....		31	
Huai Te.....	To Mar. 8.....		795	
Hu Lan.....	Dec. 31-Mar. 8.....		1,562	
Iaomin.....	Dec. 25-Jan. 13....	1	1	
I Chow.....	To Mar. 1.....	79		
I Lan.....	Mar. 9.....		143	
Kai Yuan.....	To Mar. 7.....		211	
Kang Ping.....	Feb. 28.....		159	
Kirin.....	Jan. 7-Mar. 29.....		21,880	
Kuantchentzi.....	Jan. 1-Feb. 3.....	8	3	



## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>China—Continued.</b>				
<b>Manchuria—Continued.</b>				
Kwang Ning.....	To Mar. 9.....		204	
Laio Chung.....	Feb. 27.....		33	
Liao Yang.....	Mar. 3.....		45	
Liao Yuan.....	Mar. 9.....		21	
Lan Hsi.....	Mar. 5.....		344	
Liesania vetka Handa- ohedzy.....	Dec. 25-Jan. 13....	9	9	
Lochagri.....	Dec. 27.....	4	4	
Lochagoon.....	.....do.....	4	9	
Maneduria, station.....	Dec. 7-26.....		95	
Moershan.....	Jan. 1-20.....	1	1	
Mukden.....	Jan. 1-Mar. 10.....		1,656	Mar. 5-31: 236 cases.
Ning An.....	Feb. 18.....		9	
Ning Yuan.....	Mar. 4.....		67	
Pan Shan.....	Feb. 24.....		3	
Pa Yen.....	Mar. 4.....		489	
Pen Hai.....	To Mar. 11.....		17	
Pinchow.....	Jan. 28-Mar. 7.....		1,254	
Sanshahe.....	Jan. 1-20.....	3	3	
Shing King.....	To Mar. 7.....		8	
Shu Chung.....	Feb. 16.....		76	
Sui Hua.....	To Mar. 8.....		1,198	
Swang Cheng.....	To Mar. 6.....		5,517	
Tieh Ling.....	Jan. 14-Mar. 3.....		73	
Tohjalalnarskiy.....	Nov. 11-Dec. 3....	104	106	Cases previously reported, 14; deaths, 12.
Tchjalantum.....	Nov. 21-Jan. 14....		42	
Te Hual.....	To Feb. 25.....		225	
Tun Fa.....	Feb. 6.....		9	
Turehiha.....	Oct. 30.....	4	4	
Tzaitzalgoy.....	Jan. 1-20.....	2	2	
<b>Ecuador:</b>				
Babahovo.....	Dec. 16-Jan. 15....	16	4	
Duran.....	Dec. 16-Mar. 31....	11	5	
Guayaquil.....	Nov. 1-Apr. 15....	260	205	
Milegro.....	Jan. 1-Mar. 15....	10	5	
<b>Egypt:</b>				
Alexandria.....	Jan. 4-Apr. 28.....	3	.....	Nov. 29-Dec. 24, 5 cases, 2 deaths.
Cairo.....	Feb. 11.....	1	1	
Port Said.....	Apr. 8-13.....	2	2	
<b>Provinces—</b>				
Assiout.....	Jan. 1-May 4.....	148	71	Dec. 1-29, 50 cases, 24 deaths.
Assouan.....	Jan. 1-Apr. 26.....	491	307	
Behera.....	Jan. 1-17.....	2	.....	
Beni Souef.....	Feb. 7-11.....	3	.....	
Fayoum.....	Mar. 15-18.....	11	9	
Galloubeeh.....	Feb. 28-Apr. 10....	2	1	Nov. 22-Dec. 2, 1 case, 1 death.
Garbleh.....	Mar. 3-14.....	5	3	
Girgeh.....	Apr. 2-15.....	16	13	
Gizeh.....	Jan. 1-Feb. 1.....	9	5	
Kena.....	Jan. 14-May 4.....	451	343	
Menouf.....	Jan. 1-May 4.....	57	34	Dec. 2-22, 26 cases, 14 deaths.
Minieh.....	Feb. 22-May 4.....	76	27	
<b>German East Africa:</b>				
Muanza.....	Nov. 16-Mar. 22....	30	6	
<b>Hawaii:</b>				
Honokaa.....	Jan. 31-Apr. 19....	3	3	
<b>India:</b>				
Bombay.....	Nov. 23-Apr. 22....		2,426	Feb. 19-Apr. 22, 2,379 cases.
Calcutta.....	Nov. 13-Apr. 8.....		453	
Kutrachee.....	Nov. 19-Apr. 22....	1,770	1,654	
Madras.....	Dec. 11-17.....		1	
Rangoon.....	Jan. 1-Apr. 15.....	238	232	Dec. 11-31, 10 deaths.
Bombay Presidency and Sind.....	Oct. 29-Apr. 15....	46,925	32,611	
Madras Presidency.....	.....do.....	8,195	6,761	
Bengal.....	.....do.....	65,619	53,671	
United Provinces.....	.....do.....	266,256	237,292	
.....do.....	.....do.....	93,071	77,011	
Punjab.....	.....do.....	3,975	3,760	
Burma.....	.....do.....	10	10	
Eastern Bengal and Assam.....	Jan. 29-Apr. 15....	30,773	23,688	
Central Provinces.....	Oct. 29-Apr. 15....	24	12	
Cpoorg.....	.....do.....	9,254	6,573	
Mysore State.....	.....do.....	6,875	5,783	
Hyderabad State.....	.....do.....	8,864	7,407	
Central India.....	.....do.....			

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India—Continued.</b>				
Rajputana and Ajmere	Oct. 29-Apr. 15...	21,468	17,393	
Merwara.				
Kashmir.....	Nov. 6-Apr. 15....	530	310	
North West Province.....	Dec. 10-Apr. 15....	185	129	
Grand total.....		562,024	472,410	
<b>Indo-China:</b>				
Saigon.....	Nov. 14-Apr. 16...	50	11	
<b>Japan:</b>				
Formosa.....	Jan. 22-Apr. 15....	66	54	In the southern part.
<b>Java:</b>				
Batavia.....	Apr. 7.....			Present. Feb. 18—Present among pilgrims on a steamer from Jiddah in quarantine 10 miles distant.
Paseroean Residency,				
Malang.....	Mar. 1-Apr. 15....	145	90	
Mauritius.....	Sept. 30-Feb. 2....	604	348	
<b>New Caledonia:</b>				
Noumea.....	Sept. 17.....			Present.
<b>New Zealand:</b>				
Auckland.....	Mar. 21.....	3	1	From Onehunga.
<b>Persia:</b>				
Buchir.....	Apr. 23.....			Present.
<b>Peru:</b>				
Departments—				
Ancachs.....	Feb. 1-Mar. 18....	15	2	Mar. 4 present at Casma.
Arequipa.....	Nov. 1-Feb. 28....	27	8	
Islay.....	Mar. 1-Apr. 18....	9	6	
Mollendo.....				Mar. 10-Apr. 18: Cases, 13; deaths, 6.
Cajamarca.....	Feb. 1-28.....	7	5	
Callao.....	Nov. 1-Apr. 1....	5	3	Callao. Mar. 29-Apr. 4; 3 cases.
Chiclayo.....	Mar. 1-25.....	15	6	
Lambayeque.....	Nov. 1-Mar. 18....	38	19	
Libertad.....	Nov. 1-Feb. 28....	179	85	Dec. 10-Mar. 11, present in Chicama Valley. Salaverry, May 8, 2 deaths. Mar. 1-Apr. 1, 35 cases, 10 deaths, at Truxillo. Mar. 1, present in Moche and Viru. Trujillo, May 8, 16 cases in lazaretto.
Lima.....	Nov. 1-Apr. 1....	40	21	Lima—Feb. 19-Mar. 11: Cases, 9; deaths, 3. Mar. 11: Catacaos epidemic.
Huarochari.....	Mar. 1-18.....	1		
Pacasmayo.....	Mar. 19-Apr. 1....	3	3	
Piura.....	Nov. 1-Mar. 18....	76	41	
<b>Portuguese East Africa:</b>				
Nahoria.....	May 26.....			Present.
<b>Russia:</b>				
Astrakhan Government—				
Abil-Isken.....	Nov. 22-29.....	4	4	
Kirghiz Steppe.....	Dec. 17-Feb. 7....	106	88	
Kolden.....	Dec. 6-13.....	8	3	
Koybal.....	Dec. 10-13.....	5	1	
Kulken Island.....	Oct. 13-Nov. 4....	5	5	
Naurail-Tehaygal.....	Nov. 23-29.....	5	5	
Neuren.....	Nov. 17-21.....	1	1	
<b>Trans-Caucasia.</b>				
Petrovsk.....	Nov. 23.....	1	1	
Sanitza-Oliviana.....	Nov. 22.....	1	1	
Baku.....	Dec. 17.....	1	1	
Batum.....	do.....	1	1	
Odessa.....	Jan. 1-Mar. 5....	3	2	Dec. 9, 1 death.
<b>Slam:</b>				
Bangkok.....	Nov. 27-Feb. 25....	17	15	
<b>Straits Settlements:</b>				
Singapore.....	Nov. 13-Mar. 25....	8	3	
Trinidad.....	Feb. 8-May 10.....	7	2	
<b>Turkey in Asia:</b>				
Jiddah.....	Dec. 16-Apr. 24....	37	32	
<b>Venezuela:</b>				
Caracas.....	Apr. 10-28.....	5		Nov. 9, present.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Abyssinia:</b>				
Adis Ababa.....	Nov. 20-Feb. 11.....			Present.
<b>Algeria:</b>				
Algiers.....	Mar. 1-31.....		1	
<b>Arabia:</b>				
Aden.....	Jan. 9-Apr. 10.....	126	15	And vicinity.
Berbera.....	Dec. 9-Jan. 9.....			Epidemic.
Bulhar.....	Jan. 25.....			Present.
Maskat.....	Jan. 1-21.....	3		1 case from a British naval vessel.
Zella.....	Jan. 25.....			Present.
<b>Argentina:</b>				
Buenos Aires.....	Oct. 1-Feb. 28.....		26	
Rosario.....	do.....		22	
<b>Australia:</b>				
Adelaide.....				Sept., 1910, 1 case on s. s. Kазembe from Singapore.
<b>Austria-Hungary:</b>				
Bohemia.....	Apr. 9-22.....	3		
Galicia.....	Mar. 12-Apr. 29.....	8		
Krain.....	Mar. 5-Apr. 15.....	8		
Trieste.....	Apr. 16-May 6.....	3	1	
<b>Barbados:</b>				
Bridgetown.....	Jan. 14.....	1		From steamship Cara from Rio de Janeiro.
<b>Belgium:</b>				
Antwerp.....	Mar. 26-Apr. 29.....	3		
<b>Brazil:</b>				
Bahia.....	Oct. 29-Jan. 6.....	62	31	
Para.....	Nov. 27-May 6.....	74	17	
Pernambuco.....	July 1-Mar. 15.....		1,486	
Rio de Janeiro.....	Jan. 1-Mar. 11.....	4	2	Nov. 14-Dec. 31, 6 cases.
Sao Paulo.....	Jan. 8-Mar. 11.....	2	1	
<b>Canada:</b>				
British Columbia—				
Fernie.....	Feb. 19-Apr. 1.....	10		
Vancouver.....	Jan. 1-Apr. 30.....	23		
Victoria.....	Dec. 11-Feb. 28.....	59		
Grosse Isle Quarantine Station.....	May 3.....	2		From s. s. Dominion from Liverpool.
<b>Manitoba—</b>				
Winnipeg.....	Apr. 2-29.....	3		
<b>New Brunswick—</b>				
Campbelltown.....	Apr. 4-10.....	1		
Moncton.....	Jan. 29-Feb. 11.....	15		
Newcastle.....	Dec. 18-May 20.....	12		Jan. 14-May 20, in vicinity.
St. Marys.....	Apr. 9-15.....	1		
<b>Newfoundland—</b>				
St. Johns.....	Mar. 12-18.....	2		
<b>Nova Scotia—</b>				
Halifax.....	Jan. 1-May 6.....	13		
Louisburg.....	Dec. 25-Feb. 4.....	9		
Sydney.....	Jan. 22-Apr. 22.....	9		
<b>Ontario—</b>				
Cornwall.....	Jan. 1-21.....	3		
Fort William.....	Apr. 3-May 15.....	4		
Ottawa.....	Dec. 18-May 13.....	55		
Sarnia.....	Mar. 19-Apr. 8.....	2		
Prince Edwards Island.....	Mar. 1-Apr. 29.....	150		In a French settlement 70 miles from Summerside.
Charlottetown.....	Mar. 29-May 16.....	24	1	
<b>Quebec—</b>				
Quebec.....	Feb. 12-May 20.....	11		Total for Province of Quebec Apr. 28: Cases, 300.
<b>Ceylon:</b>				
Colombo.....	Nov. 13-Apr. 15.....	40	9	
<b>Chile:</b>				
Coquimbo Province.....	Dec. 13-30.....			Present in two localities.
Iquique.....	Nov. 13-19.....		1	
Punta Arenas.....	Nov. 1-30.....	1		
Tulcahuano.....	Nov. 13-Dec. 17.....	23		
Valparaiso.....	Nov. 20-Apr. 15.....	634		Deaths not generally reported. Jan. 8-14, 2 deaths; Apr. 15, present.
<b>China:</b>				
Amoy.....	Mar. 8-14.....		8	Mar. 25-Apr. 8, still present in vicinity.
Canton.....	Dec. 11-17.....	26	3	Present among natives.
Chefoo.....	do.....			Present.
Chungking.....	Nov. 13-Apr. 1.....			Do.
Hankow.....	Mar. 26-Apr. 1.....			

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Hongkong.....	Dec. 4-Apr. 15....	105	61	
Manchuria—				
Dalny.....	Nov. 27-Feb. 11....	2	1	
Nanking.....	Nov. 20-Apr. 29....			Present.
Shanghai.....	Nov. 21-Apr. 16....	60	181	Deaths among natives.
Swatow.....	Jan. 1-7.....			Present 25 miles inland; Jan. 21-Apr. 23, present in vicinity.
Tsingtau.....	Jan. 8-Apr. 22....	27	1	
Colombia:				
Cartagena.....	Jan. 15-Apr. 9....			Present.
Ecuador:				
Guayaquil.....	Apr. 22.....			One case from s. s. Manavi from Manta.
Egypt:				
Alexandria.....	Jan. 1-Mar. 31....	27	21	Nov. 1-Dec. 31, 1 case, 2 deaths.
Cairo.....	Dec. 3-Apr. 1....	24	8	
Port Said.....	Dec. 17-Apr. 15....	30	20	
France:				
Paris.....	Dec. 3-Apr. 29....	78		
Gambia.....	Apr. 8.....			Present.
Germany.....				Total for Germany, Dec. 4-May 6, cases 124.
Magdeburg.....	Mar. 19-Apr. 8....	3		
Gibraltar.....	Jan. 16-Apr. 23....	6		
Great Britain:				
Dublin.....	Jan. 15-21.....	1		
Glasgow.....	Apr. 30-May 5....	2		
Leith.....	Dec. 11-17.....	2		
Liverpool.....	Jan. 29-May 13....	9		From a steamship from Oporto.
London.....	Feb. 19-May 6....	240	8	
Nottingham.....	Mar. 12-18.....	1		
Guatemala:				
Estora.....	May 21.....			Present.
Quirigua.....	do.....			Do.
Hawaii:				
Honolulu.....	Jan. 3-May 4....	5		Jan. 3, 3 cases on s. s. Kiho Maru from Manzanillo. Feb. 18, 1 case on s. s. Chiyo Maru from Yokohama.
Olaa.....	May 4.....	1		
Hilo.....				In vicinity Mar. 14-30, 9 cases, including 3 reported Mar. 26 at Waiakea.
Kona.....	Mar. 22.....	1		
Maui—				
Puene.....	Jan. 24.....	39		
Waikapu.....	Jan. 31.....	1		
India:				
Bombay.....	Dec. 6-Apr. 22....		237	Feb. 19-Apr. 22, 387 cases.
Calcutta.....	Nov. 6-Apr. 8....		31	
Madras.....	Nov. 20-Apr. 15....	717	296	
Rangoon.....	Jan. 1-Apr. 15....	1,079	362	Nov. 20-Dec. 31, 6 deaths.
Indo-China:				
Saigon.....	Nov. 14-Apr. 16....	383	72	
Italy:				
Genoa.....	Feb. 1-Apr. 30....	11		
Naples.....	Dec. 4-May 6....	535	205	
Palermo.....	Jan. 8-May 6....	153	54	
Turin.....	Jan. 8-Apr. 8....	4		
Japan:				
Formosa.....	Mar. 19-25.....	1		
Kobe.....	Dec. 26-Apr. 8....	6	1	Dec. 26-Jan. 1, 2 cases from s. s. Shimosa from New York via ports.
Nagahama.....	Mar. 23.....	1		From s. s. Luceric from Hongkong via ports.
Java:				
Batavia.....	Dec. 26-Mar. 18....	12		
Malta:				
Valetta.....	Dec. 4-Jan. 28....	4		
Mexico:				
Aguascalientes.....	Dec. 25-Apr. 23....		62	
Chihuahua.....	Jan. 30-May 7....	5	3	
Ciudad Porfirio Diaz.....	May 14-20.....		1	
Ensenada.....	Mar. 12-May 13....	32	5	
Guadalajara.....	Jan. 29-Apr. 1....	2	2	
Juarez.....	May 14.....	20		

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 31, 1910, to June 2, 1911.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Mexico—Continued.</b>				
Mexico.....	Dec. 11–Apr. 22....		116	Reports from Jan. 8–28 not received.
Montarey.....	Dec. 19–Apr. 16....		2	
San Juan Bautista.....	May 26.....	40	10	
San Luis Potosi.....	Nov. 13–Apr. 29....	174	35	Jan. 26, present in the interior of the State.
Tampico.....	Dec. 2–May 10....	122	34	Present in Dona Cecilia, La Barra, and Tancol.
Vera Cruz.....	Mar. 15–18.....	1	1	From a sailing vessel.
<b>Morocco:</b>				
Tangier.....	Mar. 19–25.....			Epidemic.
<b>Netherlands:</b>				
Rotterdam.....	Dec. 11–Jan. 28....	4		
<b>New Zealand:</b>				
Lyttelton.....	Dec. 30.....	1		On s. s. Knight of the Garter from Karotzu, Japan.
<b>Peru:</b>				
Salaverry.....	Jan. 25–Mar. 21....	17	2	Jan. 10–Feb. 7, present.
Truxillo.....	Dec. 19.....		2	Dec. 19–Jan. 7, present in vicinity.
<b>Philippine Islands.</b>				Third quarter, 1910: Cases, 11; deaths, 0.
<b>Portugal:</b>				
Lisbon.....	Dec. 3–May 6.....	323		Oct. 30–Dec. 31, deaths, 48. Year 1910, 286. Jan. 1–Apr. 8, deaths 47.
<b>Russia:</b>				
Libau.....	Dec. 5–Apr. 30....	8	4	
Moscow.....	Nov. 15–Apr. 29....	299	99	
Odeessa.....	Nov. 20–May 6....	42	8	
Riga.....	Dec. 11–Apr. 29....	155		Oct. 1–Dec. 31, 82 deaths. Jan. 1–Feb. 28, deaths 38.
St. Petersburg.....	Nov. 13–Apr. 22....	604	167	
Warsaw.....	Oct. 9–Mar. 11....		48	
<b>Siberia:</b>				
Vladivostok.....	Nov. 22–Mar. 21....	36	5	
<b>Siam:</b>				
Bangkok.....	Dec. 21–Mar. 16....	13	9	
<b>South Africa:</b>				
Cape Town.....	Mar. 5–11.....	1		
Johannesburg.....	Mar. 17–Apr. 15....	15	6	
<b>Spain:</b>				
Barcelona.....	Dec. 5–Jan. 8.....		2	Mar. 12, present.
Madrid.....	Nov. 1–Apr. 30....		34	
Seville.....	Jan. 1–Apr. 30....		13	
Valladolid.....	Mar. 1–11.....			Epidemic.
Valencia.....	Nov. 27–May 6....	93	3	
<b>Straits Settlements:</b>				
Penang.....	Jan. 1–Apr. 8.....	81	28	Nov. 6–Dec. 31: Cases, 69; deaths, 68.
Singapore.....	Nov. 13–Apr. 8.....	111	26	
<b>Switzerland:</b>				
Cantons—				
Aargau.....	Jan. 29–Mar. 18....	58		
Baselstadt.....	Feb. 19–25.....	1		
Bern.....	Dec. 12–Apr. 15....	21		
<b>Turkey:</b>				
Constantinople.....	Dec. 19–25.....		1	
<b>Turkey in Asia:</b>				
Adana.....	Mar. 14.....		1	
Beirut.....	Dec. 4–Apr. 22....	61	6	
Kharput.....	Apr. 2–29.....	20		
Smyrna.....	Dec. 18–May 6....	3		
<b>Uruguay:</b>				
Montevideo.....	Oct. 1–Feb. 28....	59	19	
<b>Zanzibar:</b>				
Zanzibar.....	Oct. 31–Apr. 23....	79	53	

## MORTALITY.

## WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen	Apr. 29	163,084	56								1	1		1
Do.	May 6		53								2	2		
Do.	May 13		50									1		
Amsterdam	May 6	276,260	147	23								1	7	
Antwerp.	do.	326,351	58	2						1			2	
Barcelona	May 16	591,272	18							1		3	1	1
Basel.	May 6	136,000	42	3									2	
Batavia	Apr. 15	217,630	8			6								
Belfast.	May 13	398,421	120	32							1			
Belgrade	do.	90,050	33											
Berlin	Apr. 29	2,074,104	602	68							5	27	4	9
Birmingham.	May 13	575,545	176							1		2	6	2
Bombay.	Apr. 29	977,822	898	52	279			23					21	
Bordeaux.	May 20	253,000	76	9					1					
Bradford.	May 6	297,780	73	8						1				
Bremen.	do.	246,850	72	13										
Bristol.	May 13	387,511	105	2										
Brussels.	do.	720,030	221	18								2	1	
Budapest.	Apr. 29	950,610								2	13	3	2	
Cairo.	do.	682,953	541	30					6	2	9	11	6	
Calcutta	Apr. 15	847,796	561	14	163	77		4					1	
Do.	Apr. 22		592	33	173	80		6					2	
Catania	May 13	220,000	67	6					1			1		
Chemnitz.	May 6	290,960	76	14										
Christiania	May 13	245,000	82	16								2	1	4
Coburg.	May 6	23,714	9											
Cologne.	do.	518,373	162	25							1	5	4	2
Constantinople.	May 7	1,000,000	230	41						4	3	1		
Do.	May 14		197	35					1		3	2		
Copenhagen.	Apr. 29	462,000	160	14							1	2	2	5
Do.	May 6		133	15								3	2	5
Dresden.	Apr. 29	546,200	163	25						2		3	1	
Do.	May 6	548,900	138	28							1	2	8	3
Dublin.	do.	407,457	176	27						1	1	3	17	2
Do.	May 13		170	23						1	1	1		2
Dundee.	do.	171,006	49	1										
Edinburgh.	do.	320,829	96	6									3	4
Erfurt.	May 6	124,270	30	3						1			1	1
Florence.	Apr. 30	242,403	111	19						1	1	2		3
Georgetown.	May 6	56,000	54	6						1				
Ghent.	do.	165,965	42	4									1	
Glasgow.	May 19	784,655	275								6	2	12	27
Gottenborg.	May 6	165,400	47	8									1	
Guadalajara.	May 20	118,799	62						1					
Hamburg.	May 13	932,166	263	29						1	4	15	1	1
Hongkong.	Apr. 15	336,455						3						
Do.	Apr. 22							5						
Hull.	May 13	284,502	71										1	3
Kharput.	Apr. 29	21,000	9	1									8	
Kobe.	Apr. 30	404,851	121									1		
Do.	May 7		137									4		
Kurrachee.	Apr. 29	148,000	398		309									
Leeds.	May 13	498,627	129								1	2	4	5
Leipzig.	May 6	585,743	142	15							2		2	
Liege.	Apr. 22	174,768	53	7										
Liverpool.	May 13	774,951	248	25						1			9	12
London.	do.	7,645,716	1,704							3	4	11	79	48
Madras.	Apr. 22	550,000	400										7	
Do.	Apr. 29		389			1		30					3	
Moscow.	Apr. 15	1,500,000	799	95				5	17	3	24	20	21	2
Do.	Apr. 22		788	106				9	10	1	17	13	18	3
Do.	Apr. 29		783	89				5	12	1	16	20	21	4
Do.	May 6		772	97				11	7	1	13	10	11	3
Palermo.	May 13	340,000	140	9				5		5	1			
Saigon.	Apr. 9	206,000	22		1	10		11						
Do.	Apr. 16		24		2	18		4						
Tampico.	May 20	23,452	56							17			3	
Yokohama.	May 8	419,630								1		2		

**MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES**  
(untabulated).

**ARGENTINA—Buenos Aires.**—Month of February, 1911. Population, 1,323,826. Total number of deaths from all causes 1,728, including diphtheria 18, measles 4, scarlet fever 4, smallpox 9, tuberculosis 170, typhoid fever 41.

**AUSTRALIA—Newcastle.**—Month of March, 1911. Population, 65,500. Total number of deaths from all causes 48, including tuberculosis 3, typhoid fever 3.

**FORMOSA.**—Two weeks ended April 15, 1911. Population, 3,290,186. Total number of deaths from all causes not reported. The deaths include diphtheria 2, plague 24, typhoid fever 4.

**GREAT BRITAIN.**—Week ended May 13, 1911.

*England and Wales.*—The deaths registered in 77 great towns correspond to an annual rate of 13.4 per 1,000 of the population, which is estimated at 17,160,256.

*Ireland.*—The deaths registered in 21 principal town districts correspond to an annual rate of 17.8 per 1,000 of the population, which is estimated at 1,163,596. The lowest rate was recorded at Lisburn, viz, 4.5, and the highest at Dundalk, viz, 35.9, per 1,000.

*Scotland.*—The deaths registered in 8 principal towns correspond to an annual rate of 17 per 1,000 of the population, which is estimated at 1,710,299. The lowest rate was recorded at Perth, viz, 13.1, and the highest at Greenock, viz, 24.3, per 1,000. The total number of deaths was 558, including diphtheria 6, measles 15, scarlet fever 7, typhoid fever 2.

**ITALY—Genoa.**—Two weeks ended May 15, 1911. Population, 279,163. Total number of deaths from all causes 215, including diphtheria 3, measles 5, tuberculosis 24.

**MALTA.**—Three weeks ended April 29, 1911. Population, 215,879. Total number of deaths from all causes 194, including diphtheria 2, tuberculosis 9, typhoid fever 1.

**RUSSIA—Riga.**—Month of February, 1911. Population, 355,000. Total number of deaths from all causes 84, including diphtheria 13, measles 13, scarlet fever 20, smallpox 24, typhus fever 3, typhoid fever 5.

**ST. THOMAS.**—Two weeks ended May 12, 1911. Population, 12,019. Total number of deaths from all causes 10, including tuberculosis 2.

**SIERRA LEONE—Freetown.**—Month of April, 1911. Population, 40,000. Total number of deaths from all causes 59. No contagious diseases.

**SPAIN—Cadiz.**—Month of April, 1911. Population, 67,306. Total number of deaths from all causes, 168, including tuberculosis 24, typhoid fever 1.

TAHITI.—Two weeks ended May 12, 1911. Population, 4,000. Total number of deaths from all causes, 5. No deaths from contagious diseases.

TASMANIA—*Hobart*.—Month of March, 1911. Population, 186,860. Total number of deaths from all causes, 186, including tuberculosis 12, typhoid fever 2.

TURKEY—*Saloniki*.—Four weeks ended May 13, 1911. Population, 200,000. Total number of deaths from all causes, 102, including typhus fever 5, tuberculosis 22, typhoid fever 3.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

*Surgeon General,*

*United States Public Health and Marine-Hospital Service.*